

LEATH & ROSS'S HOMŒOPATHIC PHARMACIES

9 VERE STREET, W.,
And 5 ST. PAUL'S CHURCHYARD, E.C., LONDON.

ESTABLISHED 1835.

TRADE NOTICE—10 % Discount for Cash with Orders.

OUR £4 4s. AGENTS' CASE,

Contents realise £7 5s. 3d.



Upwards of 1,600 of these Cases have been sent out.
DIMENSIONS.—Length, 19 inches; breadth, 16 inches; height of front, 3½ inches;
height of back, including flap, 11 inches.

WHOLESALE PRICE LIST OF MEDICINES PUT UP READY FOR SALE.

	TO ACCOUNT.	FOR CASH.		TO ACCOUNT.	FOR CASH.
GLOBULES. —Sixpenny Tubes ...	3/0 doz.	2/9 doz.	PILULES. —Sixpenny Bottles ...	3/0 doz.	2/9 doz.
Ninepenny „ ...	4/6 „	4/1 „	Ninepenny „ ...	4/6 „	4/1 „
Shilling „ ...	6/0 „	5/5 „	Shilling „ ...	6/0 „	5/ „
TINCTURES. —Sixpenny Bottles ...	3/0 „	2/9 „	TRITURATIONS. —Sixpenny Bottles	4/0 „	3/7 „
Ninepenny „ ...	4/6 „	4/1 „	Ninepenny „	4/6 „	4/1 „
Shilling „ ...	6/0 „	5/5 „	Shilling „	6/0 „	5/5 „

Liberal supply of printed matter to Agents, also Showcards, Transparencies, &c.

Send for Book Catalogue and Illustrated Price List.

SEVEN HIGHEST AWARDS—Philadelphia, 1876; Paris, 1878;
International Medical Exhibition, London, 1881.

"Greatly superior to the preparations in common use."—THE LANCET.

"VASELINE" PREPARATIONS

Only Genuine in our Packages.

The Bottled Goods are put up in Cardboard Cases.

MEDICINAL AND PHARMACEUTICAL.

"VASELINE" (PURE).

In collapsible tubes; 1-oz., 2-oz., and 5-oz. bottles, and in $\frac{1}{2}$ -lb., 1-lb., and 5-lb. tins.

"VASELINE" (WHITE).

In collapsible tubes; 2-oz. and 5-oz. bottles; and 1-lb. and 5-lb. tins.

"VASELINE CONFECTIONS."

One size in fancy tin box, 1s.; in boxes (wood) of 1 doz.

"CAMPHORATED VASELINE."

In 2-oz. and 4-oz. bottles, and 1-lb. tins.

"CARBOLATED VASELINE."

" " "

"VASELINE OIL."

In 8-oz. bottles and 5-lb. tins.

"VASELINE OINTMENTS."

(These Ointments are compounded with Vaseline as a base, and will be found superior to all others. They can be kept indefinitely without deterioration.)

A UNGUENTUM HYDRARGYRI ($\frac{1}{2}$ Mercury—Mercurial Ointment).
B UNGUENTUM ZINCI (OXID).
C UNGUENTUM HYDRARGYRINITRATIS (Citrine Ointment).
D CERATUM RESINÆ.
E CERATUM PLUMBI SUBACETATIS (Goulard's Cerate).
F POMAT CAMPHORATUM, Fr.
G CERAT SIMPLEX (White).
Put up in jars with flat covers, four jars in a box. No charge for jars.

FOR TOILET USE.

"POMADE VASELINE."

In 2-oz. and 5-oz. bottles; also white in coloured glass-stoppered bottles and in 1-lb. and 5-lb. tins.

"VASELINE" (PERFUMED—WHITE).

In collapsible tubes; 2-oz. and 5-oz. bottles; and 1-lb. and 5-lb. tins.

"VASELINE HAIR TONIC."

One size bottles, in cardboard cases.

"VASELINE COLD CREAM."

In glass pots, three sizes, 9d., 1s. 3d., and 2s. each.

"VASELINE CAMPHOR ICE."

In fancy tin box, one size, 6d.; one dozen in box (wood).

"VASELINE COSMETIQUE."

In metal cases, two sizes.

"VASELINE SOAPS."

Superfine Toilet (one size), three tablets in box; Family Toilet (two sizes) in boxes of six tablets and three tablets; Vaseline Tar (two sizes), in boxes of six tablets and three tablets.

FARM AND HOUSEHOLD USE.

"VETERINARY VASELINE."

In $\frac{1}{2}$ -lb., 1-lb., and 5-lb. tins.

"VASELINE ANTI-CORROSIVE PASTE."

One size, tin box, 6d. each.

"VASELINE BOOT PASTE."

" " "

"VASELINE HARNESS PASTE."

One size, 1-lb. tins, 1s.

"VASELINE AXLE PASTE."

" " "

"PERFUMED LUXOR OIL."

In square cans, holding four imperial gallons; two cans in a case (wood).

CHESEBROUGH MANUFACTURING CO. (Consolidated)

(NEW YORK),

41, HOLBORN VIADUCT, LONDON, E.C.,

SOLE PROPRIETORS AND MANUFACTURERS.

PRICE LISTS POST FREE.

CAUTION.—The word "VASELINE" is the Registered Trade-mark of this Company for all their Emollient, Remedial, and other Preparations of Petroleum.

FLETCHERS' Concentrated Liquors.

Universally acknowledged by Pharmacists who have them in use to be the most Simple, Efficient, and Economical of all methods for preparing Syrups.

LIQUOR Ferri Iodidi.

EACH fluid drachm contains 34.4 grains of Iodide of Iron.

ONE volume added to seven volumes of *Syrupus*, *B.P.*, forms Syr. Ferri Iodidi of full Pharmacopœia strength.

Liquor Ferri et Quiniæ et Strychniæ Phosph.

EACH fluid drachm contains 4 grains of Phosphate of Iron, 4 grains of Phosphate of Quinia, and $\frac{1}{8}$ grain of Strychnia.

ONE volume added to three volumes of *Syrupus*, *B.P.*, forms Easton's Syrup.

LIQUOR Calcis Lactophosph.

EACH fluid drachm contains 8 grains of anhydrous Calcium Phosphate combined with Lactic Acid.

ONE volume added to seven volumes of *Syrupus*, *B.P.*, forms Syr. Calcis Lactophosph.

LIQUOR Ferri Phosph.

EACH fluid drachm contains 8 grains of Ferrous Phosphate.

ONE volume added to seven volumes of *Syrupus*, *B.P.*, forms Syr. Ferri Phosph.

LIQUOR Ferri Phosph. Comp.

EACH fluid drachm contains, in addition to the alkaline Phosphates, 4 grains of Phosphate of Iron, and 8 grains of Phosphate of Calcium, dissolved in pure Phosphoric Acid.

ONE volume added to three volumes of *Syrupus*, *B.P.*, forms "Chemical Food."

LIQUOR Ferri Hypophosph.

EACH fluid drachm contains 8 grains of Hypophosphite of Iron.

ONE volume added to seven volumes of *Syrupus*, *B.P.*, forms Syr. Ferri Hypophosph.

On receipt of a Post Card, trial samples will be sent, carriage paid, to any address.

Detailed List, containing prices and particulars of upwards of thirty different combinations, post free on application.

FLETCHER, FLETCHER & STEVENSON,
Holloway, London, N.

ECONOMICAL COFFEE FOR THE MILLION CONVENIENT

Forty large Cups of delicious Coffee made without trouble, for One Shilling, by using

SYMINGTON'S ESSENCE OF COFFEE & CHICORY.

Their other Beverages are also well known, viz.:-

ESSENCE OF PURE COFFEE Finest Quality.

ESSENCE OF DANDELION COFFEE,

A genuine preparation, guaranteed to be prepared from the Dandelion, and containing no Chicory.

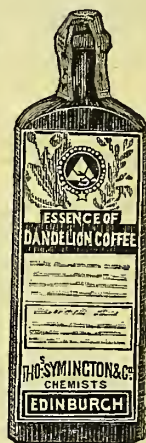
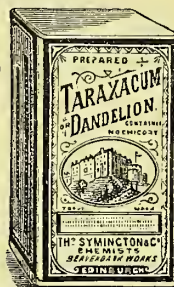
"EDINBURGH" COFFEE AND MILK.

"EDINBURGH" COCOA AND MILK.

Prepared Taraxacum or Dandelion.

Prepared Taraxacum with Coffee.

TO BE HAD FROM ALL DEALERS.



GOLD MEDAL awarded New Zealand Exhibition, 1882; and Calcutta Exhibition, 1884.
QUALITY UNSURPASSED. A TRIAL SOLICITED.

EXTRACT FROM "LANCET."

"The Essence of Dandelion Coffee is really an excellent substitute for Coffee, and will, we think, be an advantage to many bilious and dyspeptic patients."

EXTRACT FROM "BRITISH MEDICAL JOURNAL."

"Symington & Co.'s Coffee Essences have a standard reputation, and possess great merit. The Coffee Essence must be prepared in *Vacuo* at a low temperature, as the aroma of the Coffee is well preserved; in its essential qualities it does not differ in any way from a cup of Coffee made in the ordinary way. The Coffee and Milk is extremely convenient for travellers, bachelors, &c., or wherever it may be convenient to have at hand a preparation which requires only the addition of boiling water to make a cup of good Milk-Coffee."

Agent for Australia: C. A. Anderson, Clarence Street, Sydney, N.S.W. New Zealand: R. Wilkin & Co., Christchurch; Levin & Co., Wellington; and A. Heather, Auckland. United States: Davis, Sacker & Perkins, Boston. Canada: Thos. Stewart, 24 Scott Street, Toronto.

THOS. SYMINGTON & CO., CHEMISTS, EDINBURGH.



THE NEW PATENT PERFORATED TOILET PAPER & FIXTURE SHOULD BE IN EVERY HOUSEHOLD.

This Paper is strongly recommended for family and hotel use, combining, as it does, great economy and neatness, with protection to health. Once tried always continued. Gives great satisfaction.

One Fixture will last a lifetime, and rolls of paper to refill can always be easily obtained and readily attached.

1 Roll Paper, with nickel holder	2/6
1 Roll Paper, with bronzed holder	2/-
1 Roll Paper, with 1,000 sheets, to refill either holder ...	1/-

THE TRADE SUPPLIED.

THE BRITISH PATENT PERFORATED PAPER CO., LTD.,
12 LONG LANE, WEST SMITHFIELD, LONDON, E.C.

SQUIRE'S SUPERDIASTASIC MALT EXTRACT.

Extract. Bynes (SQUIRE).

THIS Extract is prepared from the finest Malted Barley, at a very low temperature *in vacuo*, by a special process, under the immediate supervision of one of the firm.

It contains the largest quantity of active diastase, and possesses the highest digestive power of any Extract of Malt in the market.

It is a valuable nutrient, undoubtedly of service in Consumption and other wasting diseases, and, being pleasant and palatable, is a most useful adjunct to the food of children.

It is one of the best remedies for indigestion when taken with **Squire's Pepsine**.

This preparation gained a Silver Medal (the only award for Malt Extract) at the National Health Exhibition, where it was in competition with Malt Extracts of other well-known makers.

Dose—A dessertspoonful for adults; a teaspoonful for children.

SQUIRE,

CHEMIST ON THE ESTABLISHMENT IN ORDINARY TO THE QUEEN,
413 OXFORD STREET, LONDON.

RESPIRATORS !!

	£	s.	d.
CLOUD, per doz.	0	8	0
COLLIER'S, per doz., No. 0, 18/-; No. 1, 24/-; No. 2, 30/-; No. 3, 42/-;			
No. 4, 48/-; No. 5, 36/-; No. 6	2	14	0
CORK, per doz.	0	6	0
COTTON WOOL, per doz.	3	0	0
MAW'S ÆTHEREON, per doz.	3	4	0
MAW'S MICRO-ÆTHEREON, per doz.	3	4	0
MAW'S INCORRODIBLE METALLIC, per doz., No. 1, 8/-; 1A, 12/-;			
2, 21/-; 2A, 18/-; 3, 30/-; 3A, 24/-; 4, 32/-; 5, 40/-; 6, 45/-; 7, 50/-;			
8, 56/-; Dwarf, No. 1, 24/-; 2, 30/-; 3,	2	0	0
MAW'S SCARF, each	0	8	0
NIGHTINGALE'S INVISIBLE, each	0	14	0
ROOFF'S, per doz.	3	3	0
ROOFF'S ORINASAL CHARCOAL, for preventing the Inhalation of			
Deleterious Vapours and Poisonous Powders in Chemical and Manufacturing			
Establishments each	0	5	6

Special Quotations to Wholesale Buyers.

S. MAW, SON & THOMPSON.

ALDERSGATE STREET, LONDON.



NOTICE.



NEPENTHE.

FERRIS & Co., v. GOODMAN.

NOTICE IS HEREBY GIVEN that by an Order of the Chancery Division of the High Court of Justice, made the 18th day of July, 1884, in the above action, **IT WAS ORDERED** that the Defendant and others be perpetually restrained from selling, or offering for sale, any formula or recipe for "**Nepenthe**," and from otherwise prejudicing the sale thereof by, or injuring the title thereto, or Trade Mark therein, of the Plaintiffs, **Messrs. Ferris & Co., of Bristol**, the **registered proprietors thereof**.

And it was further ordered that the Defendant do pay the costs of the said Action.

Dated this 12th day of August, 1884.

(Signed) CHILTON & GREEN-ARMYTAGE, BRISTOL,

Solicitors for the said Plaintiffs.

NEPENTHE.

(Prepared exclusively from Opium.)

The safest and best preparation of Opium; produces neither headache, sickness, nor constipation.

Dose, the same as that of Tinct. Opii, P.B.

Price 8s. per pound.

The word *NEPENTHE* being registered under the Trade Marks Act, Messrs. **FERRIS & CO.** have the *SOLE RIGHT* to use it; and the Trade are respectfully cautioned against any infringement of their rights.

Trade and Wholesale Terms for NEPENTHE upon application.

FERRIS, BOORNE, TOWNSEND & BOUCHER,
MANUFACTURING CHEMISTS, BRISTOL.

THE BRITISH CHEMISTS' AND DRUGGISTS' TRADING ASSOCIATION, LIMITED.

Incorporated under the Companies Acts, 1862-1884, whereby the liability of Members is limited to the amount of their Shares.

CAPITAL £100,000, IN 20,000 SHARES AT £5.

£1 payable on application, £1 on Allotment, and the remainder, if required, in instalments of 10s., with two months' intervals.

Subscribers may pay up in full, receiving interest at £5 per cent. on the amount of payment in advance of calls.

If no Allotment take place, the Deposit will be returned. The Directors propose to reserve 4,000 Shares for Colonial Subscribers.

DIRECTORS.

C. R. ALDER-WRIGHT, Esq., D.Sc., F.R.S., Lecturer on Chemistry at St. Mary's Hospital, London, 3 Castellaine Road, Maida Vale, W.

Ed. ARTHUR, Esq. (late Manager Chartered Mercantile Bank of India, London and China, Hong Kong), 12 Clement's Lane, Lombard Street, E.C.

G. H. CLARKE, Esq., Chemist, 44 Hugh Street, Eccleston Square, S.W.

WM. CROOKES, Esq., F.R.S. &c., 7 Kensington Park Gardens, W.

JAMES FLOYD, Esq., J.P., M.P.S., Bury St. Edmunds.

Geo. GLANFIELD, Esq. (late M.P.S., Torquay), West Lodge, Dorking.

ARCHBELL J. NUTT, Esq. (of Messrs. Pollock & Co., Chemists, 133 Fenchurch St., E.C.), Wychbold, Bonham Road, Brixton.

C. PALMER, Esq., M.D. (late Deputy Surgeon-General, India), Athol House, Maple Road, Surbiton.

BANKERS.—THE LONDON AND WESTMINSTER BANK, LIMITED, Southwark Branch.

SOLICITOR.—J. C. E. WEIGALL, Esq., 32 Fenchurch Street, E.C.

AUDITORS.—Messrs. W. C. COOPER & CO., London, E.C.

SECRETARY (pro tem).—Mr. JOHN MANLEY. Temporary Offices.—20 King's Arms Yard, Coleman St., E.C.

PROSPECTUS.

THIS Company has been formed in order to enable Chemists and Druggists, the Medical Profession, Hospitals, and kindred Institutions to co-operate in buying their goods wholesale in the best and cheapest markets, and for the purpose of trading as agents and manufacturers, wholesale druggists, druggists' sundrymen, and shippers.

The Shares are offered to the trade and to the members of the medical profession, who, it is expected, will subscribe the capital required in order to conduct the business on an extensive scale.

It is not necessary to dwell on the advantages of co-operation generally, which has shown such eminently satisfactory results in various branches of trade; but the directors would draw attention to the fact that the principle does not always exist where the name is applied; whereas in this Association the system would be carried out in its integrity, the customers actually supplying the capital and dealing with their own money, through the superintendence of efficient men of business, and under the supervision of the Board.

The system of uniform discounts, irrespective of quantities supplied, being one of the main features of the undertaking, the trade and medical profession will be saved the necessity of buying large stocks for the sake of extra advantages, and with regard to prices, the Directors have confidence in stating that even a moderate profit on actual cost prices would result in a highly satisfactory return on the money invested.

The customers may confidently rely upon being supplied with drugs and chemicals of undoubted purity and excellence, whilst especial attention will be given to the druggists' sundries department. All tinctures, extracts, &c., will be prepared in strict accordance with the formulas of the Pharmacopœia.

All goods ordered by country customers will be sent free to rail or wharf in London.

The Company will in all cases, where practicable, despatch orders on the day they are received, and forward invoices by post the same evening.

It is contemplated to publish a monthly price current, available as an advertising medium.

The Company's employes will, as a rule, be required to hold shares in the Company.

After having placed 5 per cent. to reserve, the balance of net profits is to be divided in the following manner:—Five per cent. dividend to be paid to the holders of one or two Shares, 10 per cent. dividend to the holders of three or more Shares, and of the surplus, one half as an extra dividend to the Shareholders generally, one-fourth as a bonus to the Directors, and one-fourth as a bonus to the staff in proportion to salaries.

The services of two gentlemen of experience, who have been many years engaged in the trade, have been promised, and the financial department will be under the personal superintendence of a gentleman equally conversant with the duties of that office.

No promotion money will be paid.

Suitable premises are being secured, and it is contemplated to commence business in about two months after allotment.

The advantages of becoming shareholder and customer of this Association will, therefore, consist in a return on the money invested according to the above division, the proportion of surplus (or extra dividend) being estimated at from 5 to 10 per cent., according to a careful investigation of the prospects of the business based upon a sufficient working capital; and a saving of from 15 to 20 per cent. on drugs and chemicals, in addition to the benefits resulting from thorough organisation and careful working, to which allusion has been made.

The Articles of Association may be seen on application to the Solicitor of the Company.

Forms of application for Shares may be obtained from the Secretary.

Applications for Shares, accompanied by a deposit of £1 per share on the number applied for, to be forwarded to the Company's Bankers, the London and Westminster Bank, Limited, Borough High Street, London, S.E.

The Greatest Corn Remedy of the Age.**PAINLESS CORN & WART PAINT (Registered).**

USED AND RECOMMENDED BY THE FACULTY.

This valuable preparation totally removes hard and soft Corns and Warts, leaving the part healthy and free from pain.

The proprietors have received from all parts the most wonderful testimonies to the miraculous cures effected by the paint, which is known and recognised everywhere as

"THE PERFECT CURE."

In cases containing a bottle of paint, camel's-hair pencil, and adhesive plaster, price 7½d. Full directions for use are enclosed with each bottle. Sample by post, 7½d. PREPARED ONLY BY

J. HARGREAVES & SON,

Chemists, 108 Fylde Road, PRESTON.

LONDON DEPOT: 1 AND 2 AUSTRALIAN AVENUE, E.C.
LIVERPOOL DEPOT: 149 DUKE STREET.**IMPORTANT TO CHEMISTS AT HOME AND ABROAD.**

The DORIC CURES are Safe, Sure, Speedy Specifics.

**DORIC EYE LOTION**, guaranteed to quickly cure red, sore, inflamed eyelids and watery eyes.**DORIC WART, CHILBLAIN, CHAP, and CORN CURE** softens and whitens roughest hands and skin. It is harmless, sweet-smelling, and beneficial.**DORIC NEURALGIA CURE** is unsurpassed and easily applied.**DORIC HAIR RENEWER** acts on the hair like magic, and quickly converts fine down into strong, healthy hair.**DORIC TOOTHACHE CURE and PREVENTATIVE** is a liquid, and contains no acid or injurious compound. It cleans the teeth, refreshes the mouth, hardens the gums, and arrests decay.

ALL 1/1½ AND 2/9 RETAIL.

CHEMISTS who write for particulars and mode of doing business will not regret doing so. Address—

DORIC CURATIVE CO., 20 HIGH HOLBORN, LONDON,

Or through Wholesale Houses.

Agents in Ireland—Messrs. Davidson & Leslie, Castle Place, Belfast.
Scotland—Messrs. Raimes & Co., Edinburgh.

Agents wanted in English towns, the Colonies, and abroad. Exceptional terms given.

GOLD MEDAL, INTERNATIONAL EXHIBITION,
LONDON, 1884.**Liberal Supply of Coloured Counter Bills and Illustrated Books, as well as Samples for free distribution, and Show Cases to Dealers.**

Wholesale, 25% off prices below. Delivered free in the United Kingdom. Terms, Cash with order.

NO
MORETOOTH-
ACHE.**DENTIFRICE ELIXIR.
DENTIFRICE POWDER.
DENTIFRICE PASTE.**DISCOVERED AND MANUFACTURED BY
**THE REVEREND BENELECTINE FATHERS
OF THE ABBEY DE SOULAC (FRANCE).**

A single trial of any of the above will prove their superior efficacy. They insure against toothache, impart an unequalled whiteness to the teeth, and a delightful fragrance to the mouth and breath.

Elixir, 2s. and 4s.; Powder, 2s. and 3s.; Paste, 2s. Of all Chemists and Perfumers. Wholesale Depot—

CHARLES PEMBO & CO.,

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IMMENSE SALE.

SOLD EVERYWHERE.

WOODS' ARECA NUT TOOTH PASTE,

For Removing Tartar, Whitening the Teeth, and Sweetening the Breath.

PRICE, 6d. and 1s. per Pot.

MAY BE HAD OF WHOLESALE HOUSES THROUGHOUT THE GLOBE.

Title Secured. Price 2/6. Cases of Six, 14/-



TRADE MARK 27668.

INVENTED BY A TALENTED PHYSICIAN.

Recommended by eminent Surgeon-Dentists. Patronised by the "Monde elegant" as the best and most agreeable liquid Dentifrice yet introduced.

PROPRIETORS—

BARTON BROTHERS, BRIGHTON.

Also Sole Proprietors of the Original

"BRIGHTON GLYCERINE CREAM."

WHOLESALE FROM

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Who has had 35 Years' Experience in every branch of Dental Workmanship. The most Moderate Scale of Charges possible to ensure Good Work and Best Materials. Price List on application. A vacancy for a pupil.

TO DENTISTS AND CHEMISTS.—Every description of Artificial Teeth made at greatly reduced charges. Best work and best materials only.An Upper or Lower Set, inclusive of Teeth Rubber, &c., £1 1s.
Ditto, ditto, on Platina, £2 2s.

Send for Price List.

Twenty years' experience in mechanical work.

LESSONS GIVEN IN MECHANICAL DENTISTRY.

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PATENT MEDICINES AND PROPRIETARY ARTICLES, ENGLISH, FRENCH, AND AMERICAN, ETC.

SOLE PROPRIETORS OF THE FOLLOWING ARTICLES:

MRS JOHNSON'S SOOTHING SYRUP.

An external application which has been in use for more than eighty years, is the only safe remedy of the kind, and is acknowledged by all who have tried it to be the best thing out for

CHILDREN CUTTING TEETH,

as it contains no narcotic nor poisonous ingredient whatever, and its taste is delicious. Rubbed on the heated gums, it relieves the little sufferer wonderfully, and at the same time assists the passage of the teeth.

One bottle will last during the whole period of teething.

Retail Price 2s. 9d. per bottle.

DREDGE'S HEAL-ALL

Is the OLDEST and MOST THOROUGH CURE FOR
MUSCULAR RHEUMATISM,

Also unequalled for LUMBAGO, CHILBLAINS, BROKEN SHINS, &c.
DREDGE'S HEAL-ALL gives immediate relief, and after the third or fourth application completely cures. It is admitted to be an infallible cure for that dangerous disorder, QUINSY, or SORE THROAT, in which it was never known to fail after a few hours' application. It is also an excellent remedy for WHITLOWS and is much used for CHILBLAINS. Charles Dickens, in "Household Words," says of "the Matron of Gable College"—"She believed greatly in DREDGE'S HEAL-ALL, and so did those boys who were most given to breaking their shins or elbows."

Retail Prices 1s. 1½d. and 2s. 9d. per bottle.

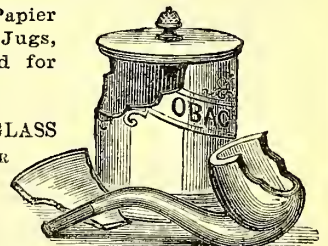
DAVY'S DIAMOND CEMENT

IS THE HARDEST, TOUGHEST, AND MOST ENDURING CEMENT EVER DISCOVERED.

It securely and neatly mends China, Glass, Fancy Articles, Papier Mache, Toys, Fossils, Shell, Bone, Broken Pipes, Vases, Jugs, Veneer, &c.; Cigar Holders, Picture Frames, &c.; and for fastening Tips on Billiard Cues is unrivalled.

SHOW CARDS, LARGE ILLUSTRATED HANDBILLS, OR GLASS TABLETS, UNITED WITH THIS CEMENT, FOR THE WINDOW OR COUNTER, FORWARDED ON APPLICATION.

Retail Price One Shilling per bottle.



Genuine Leeming's Essence, Bateman's Pectoral Drops, Dr. Green's Royal Antiscorbutic Drops, Antakos, &c., &c.
SOLE AGENTS for Burt's Liquid Blister, James Dalby's Carminative, Marshall's Cerate, Powell's Electuary, Sweeting's Elixir, James' Fever Powder (by Kiddle), the New Remedy for Headaches "Eucalyptera," &c.
SPECIAL AGENTS for Sir James Murray's Fluid Magnesia, Bailey & Co.'s Trusses and Elastic Goods, Coate & Co.'s Tooth Brushes, Bartlett's Pile Suppositories, Horsford's Acid Phosphates, Baker's Emulsion of Cod Liver Oil, Dolby's Beef Tea Extractors, Sandford's Radical Cure, Cuticura, &c.

SPECIAL AGENCIES UNDERTAKEN

For Home or Foreign Proprietary Articles

ON THE MOST FAVOURABLE TERMS.

Net List for Monthly Payments, or Gross List for Six Months' Current Account, will be forwarded Post Free on receipt of Business Card. EXPORT ORDERS PROMPTLY AND CAREFULLY EXECUTED.

INDENTS SENT THROUGH MERCHANTS SHOULD BEAR OUR NAME.

BARCLAY & SONS, 95 FARRINGDON STREET.

OSCAR SUTTON & CO., PRESTON, LANCASHIRE.

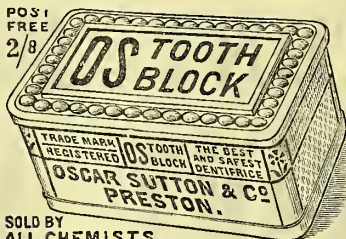
CAUTION AGAINST IMPOSITION.**O.S. TOOTH BLOCK.**

Be particular to observe that the Registered Trade Mark and the name "OSCAR SUTTON & CO." are stamped on all that are genuine, as worthless imitations are in the market.

REGISTERED



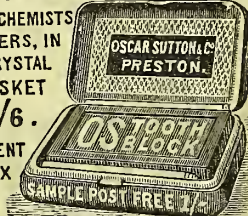
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FREE
2/8SOLD BY
ALL CHEMISTS.**BEST & SAFEST DENTIFRICE**

SOLD BY ALL CHEMISTS
AND PERFUMERS, IN
ELEGANT CRYSTAL
TOILET CASKET

PRICE 2/6.

ALSO IN PATENT
METALLIC BOX
PRICE 1/-



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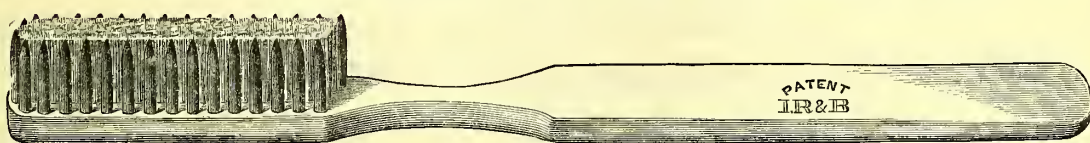
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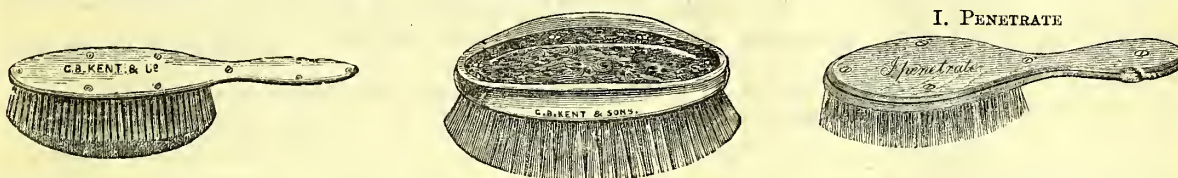
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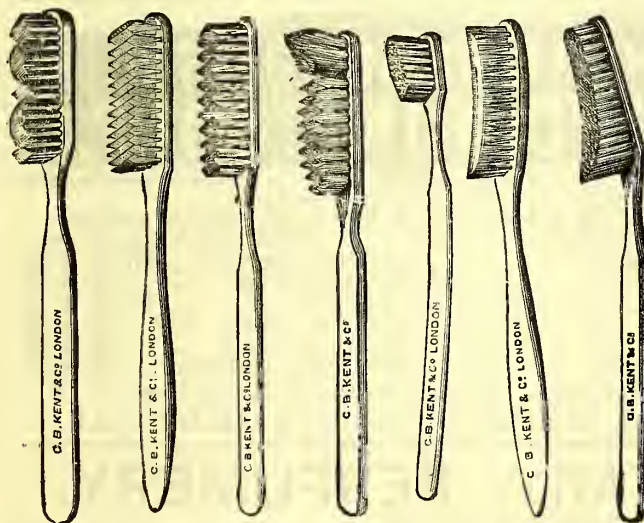
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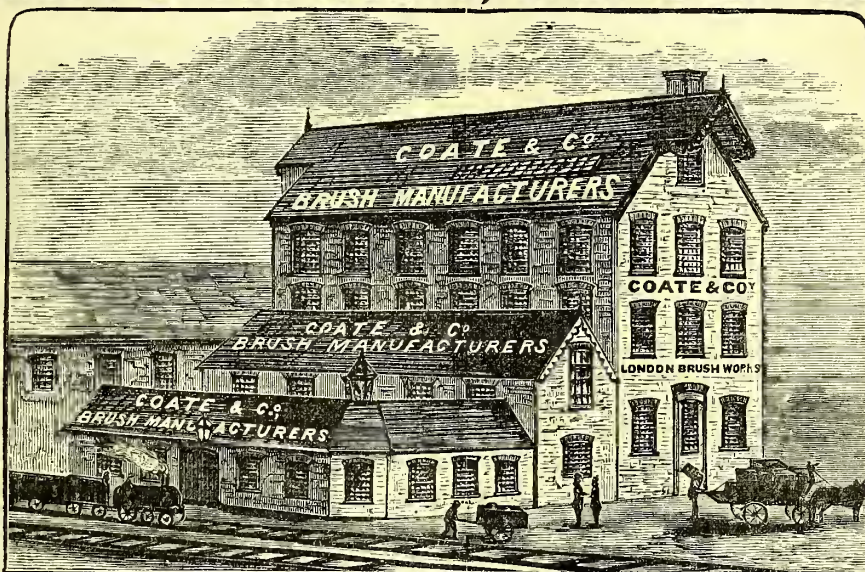
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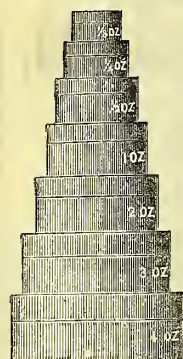
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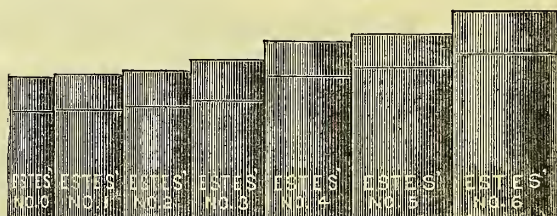
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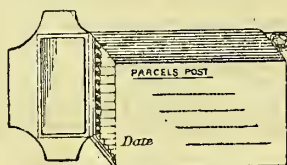
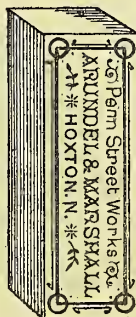
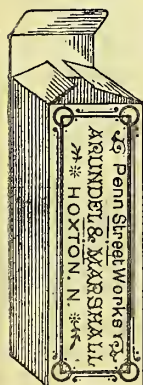
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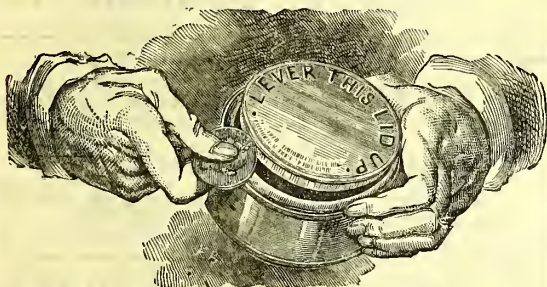
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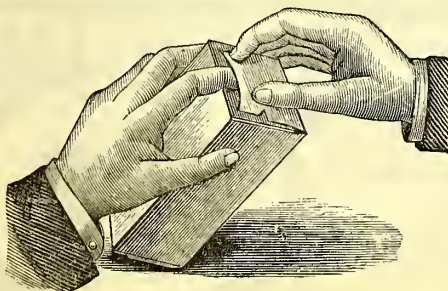
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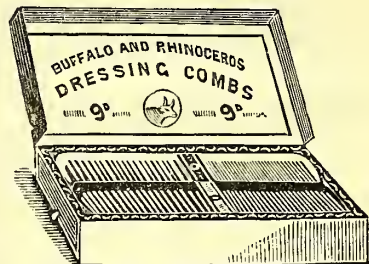
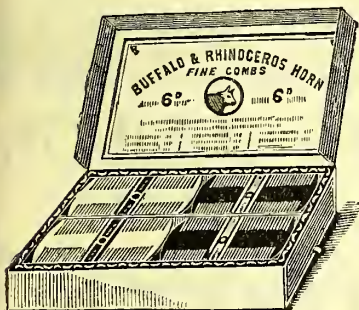


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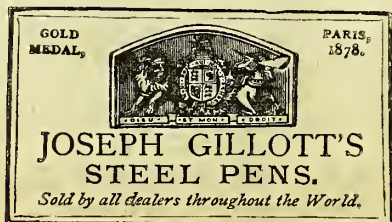
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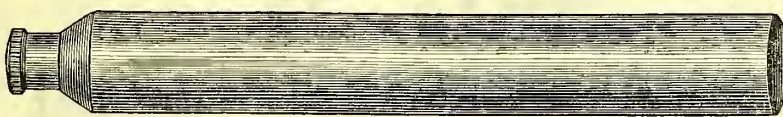
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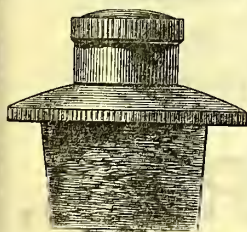
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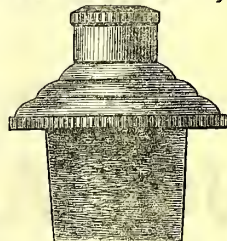
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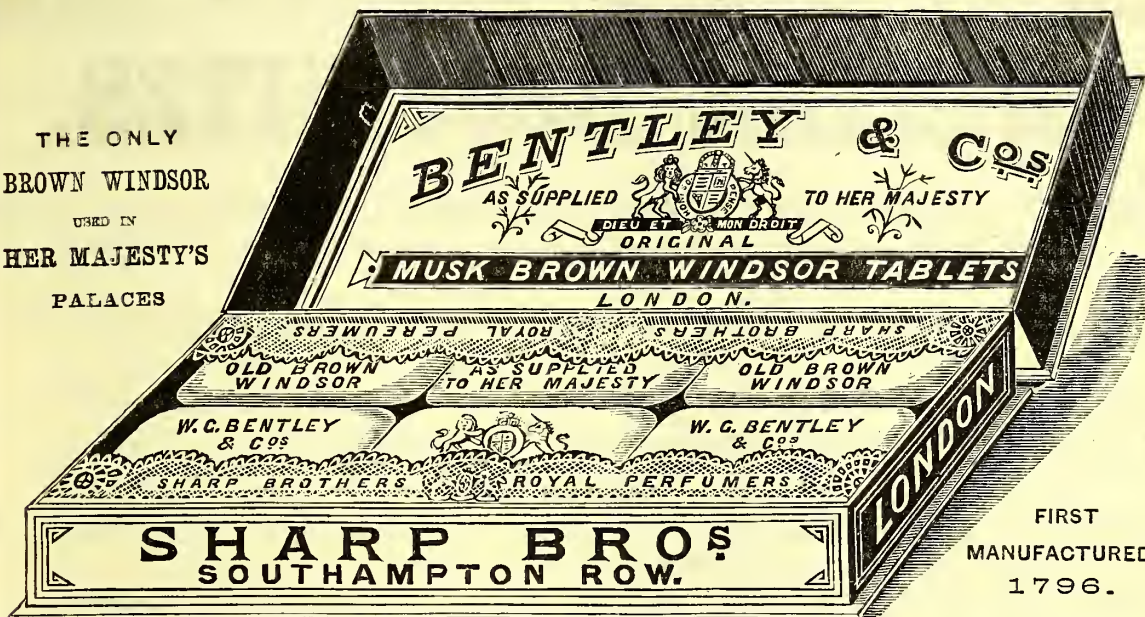
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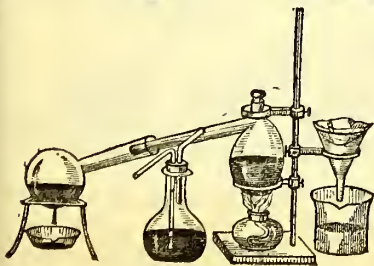
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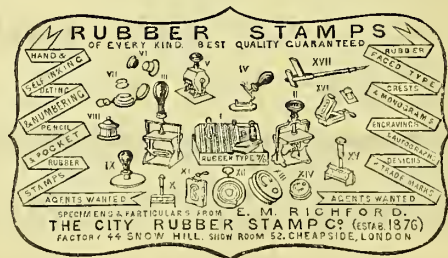
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Ditto ditto in cedar box, extra per dozen, 1/-		
Ditto ditto with Vagina Pipe and Shield, extra per dozen, 4/-		
Small Size, Green Rubber, disconnecting, with Bone Rectum and Elastic Vagina Pipes to plug, Black Shield, in slide cedar box (complete dozen, 28/6)	1 10 0	25/7½
Large size, with Bone Rectum and Elastic Vagina Pipe, both to screw on and off, Black Shield, in slide cedar boxes (complete dozen, 35/-)	1 16 0	31/2½

Special attention is called to the advantages of above, as, being made to screw on and off, are much easier to clean. Further Sizes and Prices in Catalogue.

Purchasers of Druggists' Sundries, Smelling Bottles, Hair Brushes, Combs, Sponges, Thermometers, Filters, and Boxes of all descriptions should pay a visit to our Showroom before purchasing elsewhere, in order to compare our prices and quality against other houses.

J. SANGER & SONS, 489 Oxford Street, LONDON, W.

THE SPECIAL ATTENTION OF THE TRADE
IS CALLED TO

BENZINE COLLAS,

Which is acknowledged on all hands to be the most reliable Preparation for removing Grease, Oil, Tar, Wax, or Paint from every description of Wearing Apparel or Household Stuffs. It neither injures the colour or texture, nor leaves any odour or stain. It is neatly got up, and is a most saleable article. Observe the word "COLLAS" on label and cap.

1,000 Handbills, with Name and Address,
Will be printed for any Chemist who gives an order for

£1 WORTH of BENZINE COLLAS,

At the following prices, viz. :-

6d. Size	4s. per dozen, subject to Discount.
1s. Size	8s. " " "
1s. 6d. Size ..	13s. 6d. " " "

Special Quotations to Shippers and large Buyers on application to

J. SANGER & SONS,
489 OXFORD ST., LONDON, W.

KEARSLEY'S WIDOW WELCH'S FEMALE PILLS.

These are universally acknowledged to be the Genuine,
and Druggists may safely recommend them.

CAUTION!

The Proprietors of Kearsley's Original Widow Welch's Female Pills find it incumbent on them to caution the purchasers of these Pills against various imitations by parties who have no knowledge of their peculiar preparation, the Original Recipe having been sold to the late G. Kearsley, of Fleet Street, whose Widow found it necessary to make an Affidavit, for the protection of her property, in the year 1798. The Genuine Recipe for Widow Welch's Female Pills has been prepared by them for 97 Years! Chemists are particularly requested to remark that, as a testimony of authenticity, each bill of directions contains an Affidavit, and bears the signature of "C. KEARSLEY," in writing, also engraved on the Government Stamp, and each box is wrapped in WHITE paper.

1,000 Handbills, with Name, and 2 Tin Showcards,

Supplied with all Orders for One Dozen (13) Boxes,

PRICE 27s. PER DOZEN, subject to usual Discount.

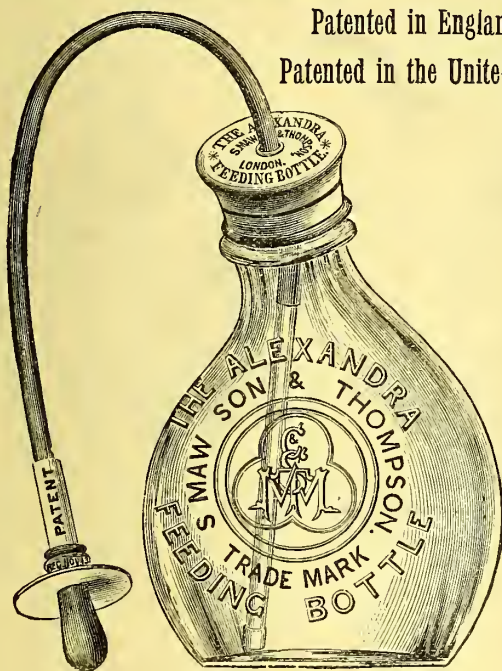
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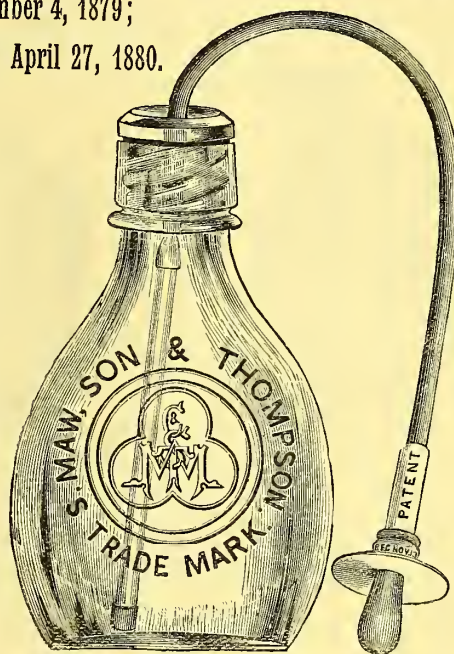
S. MAW, SON & THOMPSON'S FEEDING BOTTLES.

Patented in England, December 4, 1879;

Patented in the United States, April 27, 1880.



THE ALEXANDRA.
(Earthenware Cap.)



THE EXPORT.
(Glass Screw Stopper.)

	White Fittings.			Black Fittings.		
Alexandra, Earthenware Caps..... per doz.	—	7/6	11/-	—	8/6	12/-
Alexandra, Earthenware Screw Stoppers „	—	—	11/-	—	—	12/-
Alexandra, Glass Screw Stoppers	4/-	7/6	11/-	4/9	8/6	12/-
Export, China or Wood Top Corks	3/4	—	—	4/	—	—
Export, 2nd Quality, Wood Top Corks ...	2/9	—	—	3/6	—	—
Export, Earthenware Caps	—	7/3	—	—	8/3	—
Export, Glass Screw Stoppers	4/-	7/6	—	4/9	8/6	—

FOR FURTHER PARTICULARS SEE QUARTERLY PRICE CURRENT, PAGES 69 AND 70.

SPECIAL QUOTATIONS TO WHOLESALE BUYERS.

S. MAW, SON & THOMPSON, LONDON.

THOMPSON MILLARD'S FEEDING BOTTLES.



THE "MATER."—Screw Glass Stopper.



THE "MATER."—Tin Screw Cap.



THE "MATER."—Porcelain Cap, Gold Lines.

No. in Catalogue.							White Fittings.	Black Fittings.
							Per doz.	Per doz.
531, 532	The	MATER,"	green glass, bent neck, wood top corks, in 1 doz. boxes	..	..	..	3/6	4/-
533, 534	"	"	"	"	each in box	..	4/3	4/3
538, 539	"	"	"	"	screw glass stopper, in 1 doz. boxes	..	4/-	4/6
543, 544	"	"	white glass	"	earthenware caps, each in box	..	7/6	8/-
548, 549	"	"	"	"	screw glass stopper, each in box	..	7/6	8/-
558, 559	"	"	"	"	extra tube and teat	..	10/-	11/-
552A, 552B	"	"	"	"	tin screw caps	..	8/-	9/-
562A, 562B	"	"	"	"	very superior fittings	..	10/-	11/-
563, 564	"	"	"	"	porcelain caps, gold lines	..	10/-	11/-
563, 564	The	"IMPERIAL,"	suitable for export, green glass, straight, wood top corks, in 1 doz. boxes	..	..	..	3/3	3/9
565, 566	"	"	"	"	each in box	..	4/-	4/9
570, 571	"	"	"	"	metal screw caps, in 1 doz. boxes	..	4/3	4/9
575, 576	"	"	"	"	white glass, straight, earthenware caps, each in box	..	7/-	7/6
580, 581	"	"	"	"	pure tin caps, each in box	..	7/6	8/-
584A, 584B	The	"BRISTOL,"	green glass, bent neck, wood top corks, in 1 doz. boxes	..	..	..	3/-	3/6
584C	"	"	white	"	earthenware caps, each in box	..	—	4/6

584C is one of the best lines ever introduced is put up in handsome box, with neat label.



THE "IMPERIAL."—Tin Screw Cap.

THOMPSON, MILLARD & CO.,

LIMITED

CURTAIN ROAD,

LONDON, E. C.



THE "BRISTOL."—Earthenware Cap.

NEWBERRY'S SIXPENNY "GLOVE" SMELLING SALTS,

Watch Shape, with Screw Metal Cap.

Send for a Sample Dozen.

EUCALYPTOL FOR FLIES,

In Bottles to Retail at One Shilling each.

CHOLERA CHARMS

(1d. Locketts), Three Dozen in a Box.

1 KING EDWARD STREET, LONDON, E.C.

Established 1746.

CORN & BUNION EXTERMINATOR. REGISTERED.

This Instrument effects a painless cure for Corns, Bunions, Warts
Hard and Scaly Formations, &c.Wholesale terms upon application. Price, 1/ each; post free, 13 stamps
Testimonials can be seen, or operations performed in peculiar and difficult
cases, at C. & J. P. GARDNER'S, Chiropodists, Inventors, and
Manufacturers, Kendal. Also Makers of Metallic Ferret Muzzles;Sample sent, post free, nine stamps. Agents wanted abroad.
Wholesale Agents who stock above—Messrs. BARCLAY & SON, MAW
SON & THOMPSON, London; GOODALL, BACKHOUSE & CO., Leeds.

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TRADE MARK
REGISTERED.

All Orders by Post receive immediate attention.

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Warranted Healthy, Wholesale
and for Exportation, Direct
from Marshes.FITCH & NOTTINGHAM,
Leech Breeders,MARSEULES, & 55 PENTONVILLE
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W. EDWARDS & SON,

157 QUEEN VICTORIA STREET, LONDON,

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Patent Medicines and Proprietary Articles,

ENGLISH, AMERICAN, FRENCH, &c.

SOLE AGENTS for ROCHE'S HERBAL EMBROCATION,

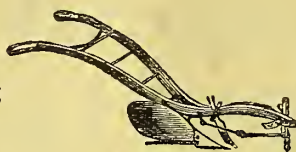
Burchell's Anodyne Necklaces, Ford's Balsam of Horehound, Widow Welch's Pills, by Mrs. Smithers
Oxley's Essence Ginger, and the preparations of Messrs. Hudson & Son, late of the Haymarket, London.

PRICE LISTS SENT ON APPLICATION. ORDERS CAREFULLY AND PROMPTLY EXECUTED.

Silver Medal, Paris, 1878.



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MARK



Philadelphia, 1876.

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MANUFACTURING, PHARMACEUTICAL & ANALYTICAL CHEMISTS

SPECIAL MANUFACTURERS OF COD-LIVER OIL, MALT EXTRACT,
MEDICATED AND OTHER JUJUBES AND PASTILLES, ETC.



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on application.

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CONTINUED FROM PAGE 32.

Extract of Meat	Ink	Paints	Pharm Preps	Santonin	Tea
Brand Evans Sons Kreochyle Liebig Co. Moir (Soups) Pothe (Leube Rosenthal)	Antoine Beardsall (Sack Marking) Bewley (Drapers') Bond's Daughter (Mark) Bunker, J. (Marking) Duncan, Flockhart & Co. Hyde & Co. Murphy (Marking) Proctor (Defiance)	Colthurst Allen & Hanbury Sanderson	Allaire Woodward Allen & Hanbury Baiss Bros. Baron Bourgoyne Burroughs Christy (Fluid Extract) Corbyn Duncan Evans, Sons Ferris & Co. (Nepenthe) Gabriel & Troke Greenish, T. Harker, Stagg & Moss Heathfield Hewlett Hooper (Potassium Pellets) Howards Kay Bros. Keith (Conc Tinctures) Lorimer Martindale (Nitroglycerine) Maw, S. S. Son (Warburg's Tincture) Reece & Co. Riand & Dusart Robbins Savory & Moore (Liq. Cin.) Sellers (Quinine) Squire (Malt Extract) Tully Thomas (Tincture of Steel) Whiffen Wooley, J., Sons & Co. Wyleys & Co.	Bieber, J. D. Clarence & Co. Evans, Sons Goodall Lazenby Schools of Pharmacy, &c. Central School Bennett (L.D.S.) Edinburgh Classes Liverpool School London Homœopathic Hospital Manchester College Royal College of Science School of Pharmacy South London School Tully Westminster College Seidnitz Powders Chubb Stedman Seltzogenes British Syphon Co. Fevre Idris Manufacturing Co. Paquet (L'Hôte's) Shaving Hovenand (Euxes) Lloyd, A. (Euxes) Sheep Dip Biggs Cooper Shop Fitters Bowling Bygrave Curtis, John, & Son Howlett Lemaire Tomlinson Yates Soap (Soft, &c.) Brecknell (Skin & Saddle) Chiswick Colthurst Field, J. C. & J. (Sampford) Thorogood (Saddle) Soda Bicarbonate Gaskell, Deacon & Co. Spectacles Darton Spirit, Pure and Methylated Burrough (Pure & Meth.) Harvey & Co. (Meth.) Jones (Methyl.) Macnair, A., & Co. (Pure) Sponge Cresswell Kent, G. Kinasco & Co. Lynch & Co. Moore, A. & F. H. Peterson Stamps Baddley (Metal & Rubber) City Rubber Stamp Co. Fleming & Co. Starch Critebley (Gloss) Harrop (Glaze) Mumford (Powder) Stoppers. Brooks, Peel (Sprinklers) Vanes, A. B. (Aer. Water) Vallet Strychnine Whiffen Surgical Bailey Boujeaurd Haywood Lindsey Lloyd (Birmingham) Poeck Bros. (Water Bed) Savar Syphons Barnett & Foster British Syphon Co. Gueret Idris Manufacturing Co.	Kangra Valley (Indian) Walker & Dalrymple Thermometers Darton Tin Canisters Lloyd, A., & Sons Self-opening Tin Box Tin Foil. Betts & Co. Trusses Bailey Boujeaurd Colwell Haywood Lindsey Maw, Son & Thompson. Philadelphia T. Co. Savar Scott, W. A. Seeley Vacuum Pans Brinjes & Goodwin Valuers Brett Gadd Gedhill Orridge Taylor & Co. Trippier Vizer Waite Varnishes Colthurst Jackson Sanderson Williams, M. (Knottling) Vermin-killers Barber Battle Galzy Junier Sanford (Rat Poison) Veterinary Cooper, J. (Lard) Corner Day, Son & Hewitt Gabriel & Troke James, R. J. James, R. S. Spratts Vinegar-making. Roetherm's Machine Waters, Distd &c. Butler, McCulloch Robinson, B. (Cone.) Raynaud (Rose, Orang Fl) Wax Cocking (Japan) Fink & Co. (Bees) Hyde & Co. (Sealing) Waterston Wholesale and Export Druggists Allen & Hanbury Baiss Barron Bieber (Hamburg) British Chemists & Druggists' Trading Association Burgess Bourgoyne Christy, T., & Co. Cocking & Co. Corbyn Evans, Lescher Evans, Sons Gabriel & Troke Harker, Stagg & Moss Herrings & Co. Hewlett Lennon, B. G., & Co. Oldfield, Pattinson Syme Wooley, J., Sons & Co. Wines and Spirits Goodall (Quinine) Hirst, Brooke (Quinine) Lamb & Watt (Orange) Robinson, B. Woodhams Wood Stains. Jackson, T. S., & Sons Zinc Oxide Harris
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Feeding Bottles	Ketchup	Paraldehyd	Pill Machines	Shop Fitters	Vermin-killers
Bourne Hearn Kilner Lang, J. & J. Maw May, Roberts Riley & Co. Thompson, Millard	Tyler, P.	Zimmermann, A. & M.	Universal Mixing Machine	Bowling Bygrave Curtis, John, & Son Howlett Lemaire Tomlinson Yates	Barber Battle Galzy Junier Sanford (Rat Poison)
Filtering	Leather	Parchment	Pills (Coated &c)	Soap (Soft, &c.)	Veterinary
Doulton & Co. (Filters) Malgen (Filter Rapide) Silicated Carbon Universal House Filter	Frost, Edw. (Chamois) Hymans Moore, A. F. & H.	Hymans	Allaire, Woodward Cox & Co. Hampton Howlett Warner (Newbery) Wyleys, A.	Brecknell (Skin & Saddle) Chiswick Colthurst Field, J. C. & J. (Sampford) Thorogood (Saddle)	Cooper, J. (Lard) Corner Day, Son & Hewitt Gabriel & Troke James, R. J. James, R. S. Spratts
Foam Producers	Leeches	Patent Agents	Pig Powders	Sheep Dip	Vinegar-making.
Bush	Butler, McCulloch Fitch, Nottingham Potter & Clarke	Horn & Son	Dennis Sporg	Biggs Cooper	Roetherm's Machine
Food (Infants' and Invalids')	Lime Juice	Patent Medicines	Pill Machines	Shop Fitters	Waters, Distd &c.
Allen & Hanbury Brand Mottershead Scott, A. & R. (Out Flour) Van Abbott (Diabetic)	Felton & Sons (Specialty) Montserrat (see Evans) Rayner & Co. (Symp)	Atkinson (Infant Preserv) Barclay & Sons Bates & Co. (Breast Salve) Beecham Bennette (Manna Cake) Bowden, J. H. (Henry's Indian) Burrows, E. (Lion Oint.) Canby & Co. Clark (Cough Pill) Clarke (Tikheel) Dorie Curative Company Evans, J. (Styptic) Ferris & Co. (Nepenthe) Geldart (Galactagogue) Gordon Gonto-Rheumaticine Hayman (Bals. Horehound) Heald (Liver Cure) Hoge's Horehound Honey Holden (Variou) Holloway Hop Bitters Horsford (Acid Phosph.) Howard, J. (Psaline, &c.) Keating Kendall (Composition Ess.) King's Hop Bitters Kitching (Oldham's Pdl.) Lalor (Phosphodyne) Lacro (Charcoal) Lincoln (Clarke's Mixture) Lowe, W. (Cough) Mills, H. F. (Dolru) Powell's Balsam Quilina Roberts (Foreign) Rusini (Styptic, &c.) St. Dalmas Sanger (Widow Welch, &c.) Schmidt, Victor (Plantain) Smith, W. F. (Pills) Shirley (Neuralgic Crystal) Stedman (Teething) Vogeler, C. R. (St. Jacob's Oil) Wright's Pulmonic Candles	Universal Mixing Machine	Bowling Bygrave Curtis, John, & Son Howlett Lemaire Tomlinson Yates	Butler, McCulloch Robinson, B. (Cone.) Raynaud (Rose, Orang Fl)
Formulae	Lint	Pens	Pitch.	Sheep Dip	Wax
Brooks, T.	Liverpool Lint Co. Newsome, C. Robinson & Sons	Gillott	Peace, J. R., & Co.	Biggs Cooper	Cocking (Japan) Fink & Co. (Bees) Hyde & Co. (Sealing) Waterston
Fuller's Earth	Lozenges	Pepsine &c	Plasters	Spectacles	Wholesale and Export Druggists
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Gas Engines	Magnesia	Pens	Pig Powders	Spectacles	Waters, Distd &c.
Crosley Bros.	Dinneford Henry, T. & II. Murray	Gillott	Dennis Sporg	Darton	Butler, McCulloch Robinson, B. (Cone.) Raynaud (Rose, Orang Fl)
Ginger Ale	Malt Extracts	Pepsine &c	Pig Powders	Spectacles	Wax
Bingley Cantrell Harston Hay Hooper Ross, W. A. Schweppe (Dry)	Evans, J. Hoff, M. Squire	Bullock & Co. Gabriel & Troke Herrings & Co. Hottot Boudault Jensen (Crystal) Warner (Ingluvin) Zimmermann	Dennis Sporg	Darton	Cocking (Japan) Fink & Co. (Bees) Hyde & Co. (Sealing) Waterston
Ginger Essence	Medicine Chests	Pens	Pig Powders	Spectacles	Wholesale and Export Druggists
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Gloves, Bath, &c.	Menthol	Pens	Pig Powders	Spectacles	Waters, Distd &c.
Condon	Christy, T., & Co. (Cones) Cocking Hockin, Wilson (Cones) Shirley Symes & Co. Todd, A. M. (American)	Gillott	Dennis Sporg	Darton	Butler, McCulloch Robinson, B. (Cone.) Raynaud (Rose, Orang Fl)
Grinding	Mixing Machines	Pepsine &c	Pig Powders	Spectacles	Wax
Follows & Bate	Follows & Bate	Bullock & Co. Gabriel & Troke Herrings & Co. Hottot Boudault Jensen (Crystal) Warner (Ingluvin) Zimmermann	Dennis Sporg	Darton	Cocking (Japan) Fink & Co. (Bees) Hyde & Co. (Sealing) Waterston
Gums	Morphia	Perfumery and Fancy Soaps	Pig Powders	Spectacles	Wholesale and Export Druggists
Clarke, G. F. H. Fink & Co.	Macfarlane & Co. Smith, T. & H.	Chesebrough (Vaseline) Crown Perfumery Co. Fosse (Perfume for Pomade) Greensill Lynch Nicholls & Passeron (Eucalyptus Vinegar) Norina Rimmel Rowland Sanger Sainsbury, S. (Lavender) Savar Sharp Bros. Thompson, Millard West Whitaker	Dennis Sporg	Darton	Allen & Hanbury Baiss Barron Bieber (Hamburg) British Chemists & Druggists' Trading Association Burgess Bourgoyne Christy, T., & Co. Cocking & Co. Corbyn Evans, Lescher Evans, Sons Gabriel & Troke Harker, Stagg & Moss Herrings & Co. Hewlett Lennon, B. G., & Co. Oldfield, Pattinson Syme Wooley, J., Sons & Co.
Guttapercha	Musk	Perfumery and Fancy Soaps	Pig Powders	Spectacles	Waters, Distd &c.
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Hair Preparations	Mustard	Perfumery and Fancy Soaps	Pig Powders	Spectacles	Wax
James & Co. (Herbal) Robare (Aureoline) Rogers (Lotion) Savar Stewart, W. H.	Finch Guilery (Leaves)	Chesebrough (Vaseline) Crown Perfumery Co. Fosse (Perfume for Pomade) Greensill Lynch Nicholls & Passeron (Eucalyptus Vinegar) Norina Rimmel Rowland Sanger Sainsbury, S. (Lavender) Savar Sharp Bros. Thompson, Millard West Whitaker	Dennis Sporg	Darton	Cocking (Japan) Fink & Co. (Bees) Hyde & Co. (Sealing) Waterston
Herbalists	Naphtha	Perfumery and Fancy Soaps	Pig Powders	Spectacles	Wholesale and Export Druggists
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Homeop Medens	Night Lights	Perfumery and Fancy Soaps	Pig Powders	Spectacles	Waters, Distd &c.
Butcher Epps & Co. Gould Keene & Ashwell Leath & Ross Thompson and Capper White and Co.	Clarke Fordham Lloyd (Birmingham)	Chesebrough (Vaseline) Crown Perfumery Co. Fosse (Perfume for Pomade) Greensill Lynch Nicholls & Passeron (Eucalyptus Vinegar) Norina Rimmel Rowland Sanger Sainsbury, S. (Lavender) Savar Sharp Bros. Thompson, Millard West Whitaker	Dennis Sporg	Darton	Butler, McCulloch Robinson, B. (Cone.) Raynaud (Rose, Orang Fl)
Hypophosphites	Ointment Bases	Perfumery and Fancy Soaps	Pig Powders	Spectacles	Wax
Forster & Gregory Tykpe & King	Chesebrough (Vaseline) Ewen (Lard) Grindley (Petrol. Jelly)	Chesebrough (Vaseline) Crown Perfumery Co. Fosse (Perfume for Pomade) Greensill Lynch Nicholls & Passeron (Eucalyptus Vinegar) Norina Rimmel Rowland Sanger Sainsbury, S. (Lavender) Savar Sharp Bros. Thompson, Millard West Whitaker	Dennis Sporg	Darton	Cocking (Japan) Fink & Co. (Bees) Hyde & Co. (Sealing) Waterston
Ice	Packing Cases	Perfumery and Fancy Soaps	Pig Powders	Spectacles	Wholesale and Export Druggists
Harrison	Lloyd, A., & Sons	Chesebrough (Vaseline) Crown Perfumery Co. Fosse (Perfume for Pomade) Greensill Lynch Nicholls & Passeron (Eucalyptus Vinegar) Norina Rimmel Rowland Sanger Sainsbury, S. (Lavender) Savar Sharp Bros. Thompson, Millard West Whitaker	Dennis Sporg	Darton	Allen & Hanbury Baiss Barron Bieber (Hamburg) British Chemists & Druggists' Trading Association Burgess Bourgoyne Christy, T., & Co. Cocking & Co. Corbyn Evans, Lescher Evans, Sons Gabriel & Troke Harker, Stagg & Moss Herrings & Co. Hewlett Lennon, B. G., & Co. Oldfield, Pattinson Syme Wooley, J., Sons & Co.
Inhalers	Paper &c	Perfumery and Fancy Soaps	Pig Powders	Spectacles	Waters, Distd &c.
Austin (Pocket) Burroughs, Wellcome Maw, Son (Earthenware and Antiseptic) Savars Toogood	British Perforated Toilet Schwenker (Filter) Wooliams (Non-Arsenical Wall)	Chesebrough (Vaseline) Crown Perfumery Co. Fosse (Perfume for Pomade) Greensill Lynch Nicholls & Passeron (Eucalyptus Vinegar) Norina Rimmel Rowland Sanger Sainsbury, S. (Lavender) Savar Sharp Bros. Thompson, Millard West Whitaker	Dennis Sporg	Darton	Butler, McCulloch Robinson, B. (Cone.) Raynaud (Rose, Orang Fl)

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INGLUVIN has answered admirably in several cases of obstinate vomiting in pregnancy which have occurred in my practice, when all other drugs have failed. (Signed) RICHARD PARAMORE, M.R.C.S. Eng.
Hunter Street, W.C., May 1, 1880.

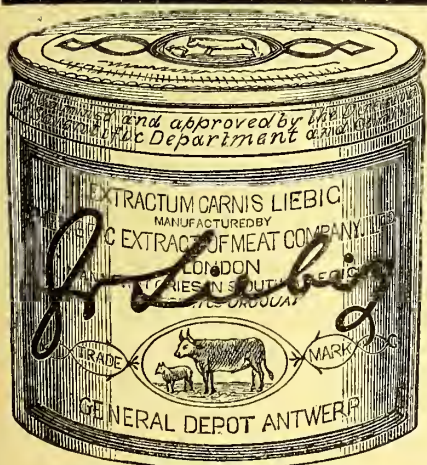
I had a case of persistent vomiting two years ago (in the case of a young lady) which resisted all the usual remedies. At length I tried INGLUVIN which proved eminently successful, not merely temporarily, but permanently. JAMES NICOL, M.D.

Llandudno, N. Wales, May 12, 1881.

Prepared only by **WILLIAM R. WARNER & Co.**, Manufacturing Chemists and Wholesale Druggists (Physicians' Supplies a Specialty), PHILADELPHIA. **SOLE DEPOT FOR THE UNITED KINGDOM.**

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3.—LONDON, N.—Good position; retail and dispensing; returns £850, increasing yearly; large shop; very attractive convenient house, with good garden; price about £700.

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8.—NORFOLK.—A very old-established country business of good class; returns over £1200; several proprietary articles, which have not been pushed; large house, good warehouse, with large garden attached; rent low; terms—valuation, no premium.

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DURHAM CO.—General mixed Retail; returns now as Branch £875; have been to £1,300; at valuation of stock and fixtures about £400, without goodwill.

MIDLANDS.—Dispensing, Prescribing, and light Retail, at good prices; ill health cause of sale; returns £800; price £500, or goodwill £100, and stock and fixtures at valuation.

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LIVERPOOL.—Old-established well-known Retail and Dispensing; returns for last 3 years average £350; price £350.

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LEICESTERSHIRE.—General light Retail, Prescribing, and Dispensing (about 2,000 new prescriptions per annum); returns £1,270; price to an immediate buyer £500, or as arranged.

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PLEASANT locality, five miles from Liverpool; a neat Family Dispensing and Prescribing Business; well fitted corner shop, with good house, garden, and stable, &c., at very low rent; established over 20 years.

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Dear Sir,—I beg to enclose cheque, value —, in settlement of your
account, for valuation, &c., and shall be glad to have your receipt for
same.

The executors are perfectly satisfied with your conduct of the matter,
and for my own part I may say that, if in a similar case I require the
services of a valuer, I shall be happy to call you in.

Yours faithfully,

FRANK S. GOODWIN.

Mr. Thomas Tomlinson, 41 Corporation Street, Manchester.

J. H. Clegg, Solicitor.

15 Acres Field, Bolton, July 3, 1884.

Dear Sirs,—Re John Cunliffe, chemist, deceased. I have received your
letter of 30th ult., and beg to enclose Mrs. Cunliffe's cheque for —,
amount due to you for valuing, &c., and disposing of stock-in-trade of
deceased. I have much pleasure in expressing, on behalf of my client, the
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attention in conducting the negotiations eventually resulting in a sale of
the stock, &c., and, so far as I am concerned, I am happy to concur in that
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Business, very profitable; rising neighbourhood; no opposition;
good house, well let off; every investigation offered to bona-fide pur-
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(Lancashire), a genuine and snug Business; returns nearly £500;
if desired, could take part fixtures and stock; inspection by bona-fide
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CHESHIRE.—Two old-established, Ready-money Retail and Prescribing Businesses for Disposal; first returns over £500; price £400; rent £40; the most commanding position in the town; excellent house. Second, price £200; rent £25; house can be sub-let for £12. Full particulars given on application; the Vendor retiring. No Major man in either town. Apply, G. M., Devonshire Buildings, Runcorn.

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WANTED, to PURCHASE, a good class Light Retail and Dispensing Business, returning about £600 a year, and capable of increase; Midland Counties preferred. A. P. S., 55 Avenue Road, Leamington.

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WANTED, an Analytical Chemist by mine-owners in Bilbao, Spain. Apply, by letter, stating age, terms, and qualifications, to Messrs. Hammond & Co., 117 Bishopsgate Street Within, London.

IMMEDIATELY, for China, an experienced Assistant (Scotchman), with the Minor qualification. Address, C., care of Messrs. Paterson & Son, stationers, Cullum Street, E.C.

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A GOOD JUNIOR, accustomed to mixed General Trade, with Dispensing, Prescribing, &c. Must be energetic and obliging, with good address. State full particulars, with photo if convenient, to Randal How, Chemist and Dentist, 26 St. Clement's, and 192 Cowley Road, Oxford.

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IN EXCHANGE for Patents or for cash, a 2-cwt. bale or any portion of fine quality long green-leaved Tinnevelly senna, 2½d. per lb.; a barrel sweet oil, as bright, inodorous, and as clear as coza oil, 1s. 6d. per gallon; a 40-lb. tin petro jelly, 4½d. per lb.; an original bottle or two of citronelle, 3s. 6d. each; a 40-lb. tin Chilian honey, 4½d. per lb.; a Winchester quart and a 12-lb. copper essence of lemon, 4s. 6d. per lb. Address, E. R. Banner, 32 Bourne Street, Liverpool.

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Extra Brilliant Durable Bronze for Gold Writing and Fine Work, 24/- per lb. Ordinary Bronzes, Gold, Copper, Silver, and every other Colour at Low Prices. FINEST CARMINE, 2/6 oz., 30/- lb.; No. 2, 2/- oz., 24/- lb.; No. 3, 1/6 oz., 16/6 lb.


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—ENGLISH VERMILLION, all Fine Colours, GUMS, GLUES, &c. DEEP & LEMON GOLD LEAF, SILVER LEAF, DUTCH METAL, IMITATION GOLD. Prices on application. On receipt of cash or reference pound of Aniline, Carmine, or Bronze will be forwarded on approval.

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LEATHER PLAISTERS.		No.	Full Size of Leathers.	Retail Prices.	Per doz.	Royal Balsamic Plaster.	Cod Liver Oil.	Plain Plaister.	Emp. Roborans or Calefaciens	Emp. Bella-donna. No. 1.	Emp. Bella-donna. No. 2.
			Inches.	d.		s. d.	s. d.	s. d.	s. d.	s. d.	s. d.
Heart Shape		1	3 x 4½	1 size.	"	0 8	0 8	0 8	0 8	1 4	1 0
		2	4½ x 6	1½ "	"	1 0	1 0	1 0	1 0	2 0	1 6
		3	4½ x 7½	2 "	"	1 6	1 6	1 4	1 4	2 8	2 0
		3½	5½ x 7¾	3 "	"	2 3	2 3	2 0	2 0	4 0	3 0
		4	6½ x 8½	4 "	"	3 0	3 0	2 8	2 8	5 4	4 0
		5	8 x 9½	6 "	"	4 6	4 6	4 0	8 0	6 0	
Long Shape		1	2½ x 4	1 "	"	0 8	0 8	0 8	0 8	1 4	1 0
		2	4½ x 6¾	2 "	"	1 6	1 6	1 4	1 4	2 8	2 0
		2½	4½ x 8½	3 "	"	2 3	2 3	2 0	2 0	4 0	3 0
		3	5½ x 9½	4 "	"	3 0	3 0	2 8	2 8	5 4	4 0
		4	6½ x 11	6 "	"	4 6	4 6	4 0	4 0	8 0	6 0
		5	7½ x 14½	8 "	"	6 8	6 8	6 0	12 0	8 0	
Oval Shape		1	4½ x 6½	2 "	"	1 6	1 6	1 4	1 4	2 8	2 0
		2	6½ x 8½	4 "	"	3 0	3 0	2 8	2 8	5 4	4 0
		3	7½ x 9½	6 "	"	4 6	4 6	4 0	4 0	8 0	6 0
Saddle Shape		1	6½ x 12½	6 "	"	4 6	4 6	4 0	4 0	8 0	6 0
		2	7 x 15	8 "	"	6 8	6 8	6 0	6 0	12 0	8 0
		3	8 x 16	12 "	"	8 8	8 8	8 0	8 0	15 6	12 0
Wrist		1	3 x 10½	3 "	"	2 3	2 3	2 0	2 0	... ..	... ..
Knee		2	4½ x 15	6 "	"	4 6	4 6	4 0	4 0	... ..	... ..

 BREAST PLAISTERS.		No.	Size of Leather	Retail Prices.	Per doz.
				d.	s. d.
Emp. Plumbi, for Ladies' Breasts	1	Diam. 6 $\frac{1}{2}$ in.	4 size	2	8
Emp. Plumbi, for Ladies' Breasts	2	" 7 $\frac{1}{2}$ "	6 "	4	0
ditto spread on Chamois	1	" 6 $\frac{1}{2}$ "	" "	4	0
ditto ditto ..	2	" 7 $\frac{1}{2}$ "	" "	6	0

BREAST PLAISTERS.	No.	Size of Leather	No. 1 Quality. Per doz.	No. 2 Quality. Per doz.
			s. d.	s. d.
Emp. Belladonna, for Ladies' Breasts	1	Diam. 6 $\frac{1}{2}$ in.	5	4
ditto	2	" 7 $\frac{1}{2}$ "	8	0
ditto spread on Chamois	1	" 6 $\frac{1}{2}$ "	8	0
ditto ditto	2	" 7 $\frac{1}{2}$ "	12	0

PLAISTERS, SPREAD.—Prices per Dozen Yards. 16 Inches in width.						
NAME	Glaized Cloth	Unglaized Cloth	Linen	Swans-down	Mole-skin	Skins of Leather
Emp Adhesivum Opt. ...	4/0	5/6	12/0	12/0	21/0	4/0
" Adhesivum	5/8	"	"	"	"	"
" Ammon.c.Hydrarg	16/0	"	"	30/0	36/0	5/6
" Antim. Pot. Tart.	10/0	"	"	24/0	36/0	4/0
" Belladonna	18/0	20/0	27/0	27/0	36/0	5/6
" Calafaciens	11/0	12/0	16/0	15/0	24/0	4/6
" Cerat Saponis	8/0	9/0	14/0	14/0	24/0	4/6
" Dreadnought	9/0	10/0	14/0	14/0	24/0	4/6
" Elemi	9/0	10/0	14/0	14/0	24/0	4/6
" Ferri	9/0	10/0	11/0	14/0	24/0	4/6
" Galbani	14/0	"	"	24/0	30/0	4/6
" Hydrarg.	14/0	15/0	18/0	18/0	27/0	4/3
" Iodine	16/0	"	"	30/0	36/0	5/6
" Opil	18/0	20/0	27/0	27/0	36/0	5/6
" Picis Co.	11/0	12/0	15/0	15/0	24/0	4/6
" Plumbi	5/6	6/6	12/0	12/0	21/0	4/0
" Potass. Iodid.	16/0	"	"	30/0	36/0	5/6
" Resinae	5/6	6/6	12/0	12/0	21/0	4/0
" Roborans	6/0	7/0	17/0	12/0	21/0	4/0
" Saponis Alb.	5/6	6/6	12/0	12/0	21/0	4/0

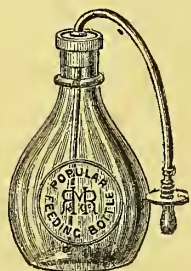
London Wholesale and Export Agents: Messrs. MACE & HALDANE, 77 Milton Street, London, E.C.

FEEDING BOTTLES.

PACKED IN ONE GROSS CASKS.

CASKS FREE.

**GREEN Glass Bottles, Boxwood-topped Corks,
with Best White Rubber Fittings.**



“THE POPULAR”

23/5 (Straight Neck),
PER GROSS.

“THE COLONIAL”

25/5 (Bent Neck),
PER GROSS.



If with **WHITE Glass Bottles**, 2s. per gross extra.

If with **Black Rubber Fittings**, 4s. per gross extra.

MAY, ROBERTS & CO.,

9 CLERKENWELL ROAD, LONDON.

(Three minutes' from Aldersgate St. Station.)

Catalogue of Druggists' Sundries, Patent Medicines, &c., post free on application.

EXCHANGE COLUMN.

TERMS.—Announcements are inserted in this column at the rate of one halfpenny per word, on condition that name and address are added. Name and address to be paid for. Price in figures counts as one word.

If name and address are not included, one penny per word must be paid. A number will then be attached to the Advertisement by the Publisher of THE CHEMIST AND DRUGGIST, and all correspondence relating to it must be addressed to the "Publisher of THE CHEMIST AND DRUGGIST, Colonial Buildings, Cannon Street, London, E.C.," the envelope to be endorsed also with the number. The Publisher will transmit the correspondence to the advertiser, and with that his share in the transaction will cease.

Dental and Surgical.

Pocket medico-electric machine; mahogany box; new; 15s. 6d., bargain. 242/33.

Maw's Chapman's 8-inch spinal ice-bag; used twice. Yates, Chemist, Swinton, Manchester.

Large medical electric machine, with indicator; exceedingly cheap; 25s. 6d. Londoniensis, Messrs. Challicom, 72 Blackstock Road, Seven Sisters' Road, N.

Twenty-four pairs of Maw's forceps, many nearly new; 1 mirror; 2 Ward's elevators, ivory handles; the lot 2l. 10s. R. G. Hulme, 97 Ebury Street, London, S.W.

Drugs and Chemicals.

Iodide of potassium, 9s. lb., in quantities of 7 lbs. 8s. 9d.; guarantee pure. J. W. Feltwell, 91 Hammersmith Road, W.

A Bargain.—A large quantity of drugs and chemicals for sale; owner giving up drug trade. Apply, E. B., 38 Duke Street, Manchester Square, W.

Optical.

Cheap convex spectacles, about a gross; half cost; offers. 240/4.

Five dozen pairs spectacles by good maker, in good condition; to be sold cheap, or any reasonable offer accepted. 2/240.

Proprietary Articles.

MacLeod's sheep dip; 3d. per lb. Palmer, King's Lynn.

What offers per doz. for 1s. 1½d. and 2s. 9d. patents, and 4 oz. quinine. 242/36.

For Sale.—A few gross Alcock's porous plasters at 6s. 3d. per doz., 72s. per gross; poor man's plaster, on cloth, 11s. per gross; Brandreth's pills, 6s. 3d. per doz., 72s. per gross; 36 doz. good nail-brushes, at 1s. 1d. per doz. Write for list of surplus stock to Mason & Proctor, Druggists, Leeds.

Four 4s. 6d. Brown's restorative assimulant; two 2s. 9d. Liebig's chemical food; three 3s. 6d. Rossiter's hair restorer; four 1s. African hair restorer; one 10s. 6d. Rowland's Macassar oil; one 4s. 6d. Rowland's Kalydor; one 4s. 6d. hydrolcine; one 4s. 6d. lactopeptine; no reasonable offer refused. Dyson, Chemist, Bacup.

Apparatus.

Powder-mixing machine; what offers? Pearson, 97 Hanover Street, Liverpool.

Sheep-oilment machine; 2l. Palmer, King's Lynn.

For Sale.—Pindar's hand rotary pill-machine, with 3 pairs of rollers, cylindrical piping-press, three piping-plates, nuts, screws, and everything necessary for the manufacture of 5-grain, 4-grain, and 2-grain pills; quite new; cost 19l. 10s.; offered at a sacrifice to make room for larger machinery. Hopkinson, Wheelgate, Nottingham.

Educational.

Microscope, 3 powers; stand, condensor, &c. in case; in good condition. 2/240.

Set of illegible autograph prescriptions (original), 2s. 6d., as presented to the Pharmaceutical Society of Ireland for their examinations; 30 prescriptions (catch and difficult) given to dispense at Minor during past 12 months, 2s.; 50 questions asked of successful students at last Minor, 1s. 1d.; lot of cheap, almost new, books. Stamp for list, Saunders, Medical Tutor, 6 Rochester Square, N.W. (Note change of residence.)

Literature.

Hanbury and Flickiger's "Pharmacographia," new, 15s. 241/20.

Pharmaceutical Journals from 1853, bound; medical books. 12/243.

Offers wanted for twelve months' CHEMIST AND DRUGGIST posted week old. Simms, South Cliff, Scarborough.

Pharmaceutical Journal, 1879-83, unbound, cheap; what offers? Thelwell, Sefton Street, Southport.

What offers for last ten years' Pharmaceutical Journal and CHEMIST AND DRUGGIST? Jno. Sneed, Chemist, Keighley.

The first 10 years of THE CHEMIST AND DRUGGIST, in good condition, 20s., or offers. 15/15.

Cooley's "Cyclopædia," cost 42s.; Proctor's "Pharmacy," cost 14s., both latest editions, perfectly clean and well bound; what offers. W. C., 50 Elgin Crescent, W.

Muspratt's "Dictionary of Chemistry applied to Arts and Manufactures," latest edition; 8 divisions, handsome cloth gilt, quite clean and new, cost 4l. 4s., sent, carriage paid, for 3l. 3s. Apply W. Parry, 46 Stanley Road, Bootle, Liverpool.

Soda-water Plant.

Barnett & Foster have some second-hand soda-water machinery of their own for sale. Apply, 26r Eagle Wharf Road, Hoxton, N.

Second-hand soda-water plant—several in stock. Address, Bratby & Hinchliffe, Sandford Street, Ancoats, Manchester.

Shop Fittings.

For sale, a handsome mahogany-framed tablet, or fascia, for top of dispensing-screen, with plate-glass panel and gold letters; length of frame, 10 feet 9 inches, 7 inches deep; price 25s., cost nearly double few months since. Lyon, Chemist, Ipswich.

Second-hand Glass, &c.—Two specic jars, arms, covers, 2l in., and stands, 3l.; 7 specic jars, scrolls, covers, 28½ in. high, and plinths, 30s.; 6-gallon carboy, cut stopper, 12s. 6d.; 3 3-gallon ditto, and 1 2-gallon, flat front, and stands, 27s. 6d.; 2 3-gallon cylinders, 10s.; 15 1-lb. blue pots, and 55 stoppered rounds, no labels, 38s. Hawke & Son, London.

For Sale.—100 gold-labelled bottles and pots, all sizes, 50s.; 3 4-gallon carboys, 30s.; 3 nests of shelves, 30s. Chandler, 22 Battersea Rise.

Two handsome specic jars and stands, cost 10l. 5s., price 7l., or exchange for saleable patents or other suitable goods to cost. Stead, Lees, Oldham.

Second-hand Fittings.—About 25-foot druggis wall-fittings, 12-foot wall-case, window, enclosure, dispensing-screen, desk and case, cigar case, four carboys, two specic jars and stands, drug-scales, 14 dozen bottles and pots; 38l. Hawke & Son, London.

Second-hand Fittings.—Nest 47 usnal drug drawers, 50½ ins. long, 47½ ins. high, 3l. 10s.; nest 30 do. coverhard lockers, 62 in. long, 47 in. high, 2l. 15s.; Spanish mahogany dispensing-screen, plate-glass sashes, tablets, pilasters, trusses, 107 in. long, 23½ in. high, 7l. 10s.; plate-glass counter-case, 43 in. long, 16 in. wide, trays, 2l.; mahogany wall-case, three bent plate-glass flaps, silver and plate ends glass drawers 73½ in. long, 21 in. deep, 19½ in. high, 7l. 10s.; counter-case, as Maw's A 4, 42 in. long, 25 in. wide, 23 in. high, no carving, 6l.; mahogany wall glass-cases, lower compartment with open shelving pilasters, 132½ in. long, 100 in. high, 8l.; two mahogany window-enclosures, ornamental glass, 17 ft. run, 2 ft. 11 in. high; 19 plate glass shelves, polished edges, various lengths and widths, 2s. each; 2 ditto, 68 in. by 6 in., and 6 brackets, 15s.; 2 counter gas pillars, 15s.; 5 window do., 12s. 6d. Hawke & Son, Wild Court, Great Wild Street, London.

One 12 ft. range of new mahogany fronted, with glass labels and knobs, and lockers under, shelving and cornice over; price 14l.; return shelving and cornice, 12 ft. or 14 ft. long, 42s.; 9 ft. counter, with panelled front, 60s.; 6 ft. ditto, with Spanish mahogany top, 45s.; one dispensing-screen, with mirror centre, 5 ft. long, 110s.; one ditto, 6 ft. long, 120s.; one ditto, 7 ft. long, with handsome tablet in centre, 7l.; one ditto, 6 ft. long, with gothic mirror centre, 7l. 10s.; one 6 ft., one 12 ft., and one 18 ft. range of best pine-fronted drawers, stained mahogany and French polished, gold labels and glass knobs, 66s., 132s., and 198s.; lot of 250 show-globes, from 1 to 12 gallons, 3s. 6d. to 25s. each; 100 new 20-oz. w. and u. mouth rounds, newly labelled, price 90s.; 50 ditto, 40-oz., 63s.; 72 8-oz. ditto, 54s.; 36 3-lb. white ointment jars, gold labelled, new, 1s. 8d. each; range second-hand drawers, newly painted, mahogany, with gold labels and glass knobs, 5l.; 20 6-lb. white jars, 1s. each; second-hand tinot. presses; various plate-glass tablets for fixing on outside of shop windows; good second-hand globe lamp, with handsome bracket complete, very cheap; also the entire fittings of a chemist's shop for 38l. Particulars and illustrated lists free on application to R. Tomlinson, Midland Medical Fitting War-house, 15 St. Paul's Square, Birmingham.

Walnut-wood cabinet, marble top, mirror front and back, three glass doors, one pane 25 in. square, frame 2 inches. 243/12.

For Sale.—A Spanish mahogany wall-case, 6 ft. long and 9 ft. high, with 6 plate-glass doors to open, and 3 bent plate-glass falls to lift up in front, as fig. A 88, 247; and a large quantity of mahogany-fronted drawers at 2s. per drawer. Bygrave, Curzon Street, Wenlock Street, New North Road London, N.

The entire nearly new fittings of several handsome chemist's shops, will be made to fit any sized shop; this is a favourable opportunity of having a superior shop fitted at about half the usual cost; gentlemen requiring alterations or refitting will be waited upon by Lloyd Rayner, 46 De Beauvoir Crescent, Kingsland, London, N., and Leytonstone, E. Shop drawers, mahogany, or stained mahogany fronts, with gold or glass labels, &c., in nests, all lengths, as A 79, 80; or complete fittings, as A 82, 83, 84, 85 Maw's; quantity retail and dispensing counters, as A 61, 61, 62, 63, 64 Maw's, in all lengths; shop lamps and brackets, fig. 5, 9, 10 Maw's pillar lamp; quantity gold-labelled shop bottles and jars, all sizes; carbons, specie jars, tincture and cork presses, pill-machines, mortars and pestles, graduated glass measures, and every description of shop fittings and utensils required by the trade. Lloyd Rayner, 46 De Beauvoir Crescent, Kingsland, London, N., and Leytonstone, E.

Wall cases, 2 ft. 6 in. long, 3½ ft. ft. long, long, 6 ft. long, 8 ft. long, 10 ft. long, 12 ft. long, 13 ft. 3 in. long, 14½ ft. long, 20 ft. long, in all designs; dispensing cases and screens, 3 ft. long, 3½ ft. long, 4 ft. long, 4½ ft. long, 5 ft. long, 6 ft. long, 7 ft. long, 8 ft. long, 10 ft. long, as A 54, 55, 56 Maw's, and 135, 136 Treble's upright cases, with and without desks, A 31, 32 Maw's; sponge cases A 41, 42, 43 Maw's; show stands, A 38, 39, 40; cigar cases, A 34, 35; label chests, A 2, 29; tooth-brush cases, A 9, 10; counter cases, A 12, 13, 14, 15, 16, 17, 18, 23, 24 Maw's; counter cases, as fig. A 1, 3, 4, 5, 6, 7, 8 Maw's. Lloyd Rayner, 46 De Beauvoir Crescent, Kingsland, London, N., and Leytonstone, E.

Formulæ.

Fragrant foaming dentifrice (like "Floriline") marking ink, *sine* silver (aniline), writing executed defies chemicals; effervescing fruit saline (resembles Eno's); magie neuralgic drops (never-falling remedy); quinine and iron tonic (resembles Pepper's); lime-juice and glycerine (inseparable, white as milk); blue-black ink (non-corrosive, *sine* iron or galls); cherry tooth paste (never ferments; like Gosnell's); brillantine (inseparable, like Rimmel's); pill-coating (pearly white, no mucilage or mastic used); glycerine jelly (perfectly transparent); crimson marking-ink; hair-restorer (colourless, no deposit, *sine* silver); aromatic vinegar; toilet vinegar (as Rimmel's); plate-powder (like Stevens' "Silicon"); Oleum Flavum Conc., for pomades (colour stable); soluble essence ginger (like Hay's); corn solvent, clear (not acid); liquor copaiba comp. c. buchu et matico (mixes clear with water); gonorrhoea paste, excellent (Dr. Ricord's); taraxacum and podophyllin (resembles Pepper's); with many others; send stamp for list, stating wants. The toilet preparations are identical with those prepared by a wholesale West-end firm; others equally good; all inexpensive to make; 5s. each (five for 17.). Readers are cautioned against cheap and worthless imitations. I was first to advertise formulæ in this journal. "Analyst," care of Mr. Warner, 6 Rochester Square, N.W. (Note change of address.)

"Devoniensis Lavender Water"; copy of this famous formula 2s. 6d. for the present, will ultimately be raised to half a guinea. "Devoniensis," Broadhepston, Totnes.

Menthol Cones.—Send 13 stamps for formula a cost 1½d. each; retail, 6d. and 1s., selling by thousands where introduced. Smith, 723 Old Kent Road, London, S.E.

"Tic Mixture"; an approved remedy, of many years' standing, for toothache, neuralgia, and tic, one bottle cures obstinate cases! "Tic Tincture" applied to the hollow tooth on wool acts like a charm, relief generally instantaneous; "Lavender Water," "Eau de Cologne," "Tooth Paste," "Arabian Bouquet," "Almond Tablet," "Camphor Ball," "Cold Cream," "Limes and Glycerine," "Emollient Cream," "Glycerine Jelly"; all the above requisites are in actual trade, and sell well, being equal to anything in the market; formulæ, 1s. 6d. each; two, 2s. 6d. W. Arthur, 31 Thomas Street, Cheetham Hill, Manchester.

Honest, Reliable Formulæ, all in actual commerce, satisfaction guaranteed.—"Glycerine Cream," an elegant preparation for roughness of skin, invaluable at all seaside resorts, certain sale; "Entirely New Remedy for Toothache," gives instant ease, not injurious to other teeth; "Nigerine," jet-black, waterproof patent blacking, cheaper, sweeter, and better than Nubian; "Digestive Relish," best and cheapest sauce in creation, from 3s. gallon; "Lupuline Bitters," equal to American in every respect, one-third price; "Limes and Glycerine," elegant, creamy, snow-white, quite inseparable, pronounced best in market; "Foaming Dentifrice," resembles Floriline, costs one-eighth; "Rheumatic Embrocation," most excellent, cannot be surpassed in cheapness and efficacy; "Blood-purifying Powder" (London surgeon's recipe), popular spring and autumn remedy; "Anti-spasmodic Elixir," simple, reliable, always efficacious; "Camomile and Quinine Pills" for indigestion, &c., frequently preferred to Norton's; "Effervescent Depurative Saline," facsimile of Eno's, costs 10d. lb., entirely soluble, keeps well; "Cryptzymosis," certain speedy cure for gleet, &c.; "Mist. Gonorrhoea" (capivi), nauseous taste masked, unfailing remedy; "Hair-restorer" (*sine* sulphur), clear, sweet, economical, confidently recommended; "Liver Pills" (vegetable), gentle action, always effectual; "Lavender Water," superb fragrance, lasting, equals Sainsbury's; "Occasional Pills" (for ladies), most reliable, preferred to Widow Welh's; "Essence for Deafness," simple and effectual; "Podophyllin and Taraxacum," pleasant taste, vastly superior to similar preparations; "Pile Powders and Ointment," cure and prevent hemorrhoids; "Quinine and Iron Tonic," bright and unchangeable, resembles Pepper's; "Worm Syrup," entirely vegetable, pleasant and rapid action; "Ringworm Specific," certain rapid cure; "Tic Pills," unequalled in efficacy, many testimonials; "Chlorodyne," inseparable, perfectly soluble, quite equals Brown's; "Marking Ink," indelible, no waste, creditable to seller; "Fumigating Ozonic Ribbon," cheapest, sweetest, perfect disinfectant. All above guaranteed genuine formulæ, are profitable, and may be recommended with confidence. Price 1s. 1d. each, 3 for 2s. 6d., 25 for 17., post free, with full particulars for making, &c., by T. Brooks, Chemist, Louth, Lincs. N.B.—Detailed list sent post free.

Miscellaneous.

Large number of lantern-slides for sale. App'ly, Piggott, Chemist, Huddersfield.

Eight ¼-oz. bottles of Lyme's musk, 21s. each. Richard-on, Alford, Lincolnshire.

Cheap.—Zuccato's Papyrograph; job lot of medicals and sanitary sponge. Lorymer, 77 Milkwood Road, London.

Show-bottles, specie-jars, shop-jars (all sizes and colours), lamps, store-bottles, glazed cases, 21 Broadway, Deptford.

One cwt. black paint in oil; 4 gallons French polish; 1 cwt. Virginia pitch; 2 gal on oak varnish; 1 cwt. ferri sulph. commercial; ½ cwt. horax; 1 cwt. best rosin. 243/12.

For Sale.—A small quantity of soaps and perfumes from a bankrupt's stock. Apply to the trustee, Henry W. Figg, St. Paul's Chambers, Ludgate Hill, E.C.

One and a half cwt. rotten-stone; 1 cwt. ivory black; 1 cwt. 1 gr. gum thust; 58-lb. rad. zingib. (African); 28 lbs. gran. parad.; 42 lbs fustic; what offers? A. Gaddes, Brampton Cumberland.

14 lbs. opium tinc.; 8 oz. otto virg.; Dr. Paris's "Pharmacologia"; ten gross Stevens' silvery-white gutta-percha, 1d. size on show-cards; six doz. 6d. size, on show-cards. Offer wanted. 245/12.

To Dentists.—Surgery lathe, 35s. (Graham and Woods); articulator, 3s. 6d.; 100-gallon gas-bottle, 10s.; American pin-nippers, 3s. 6d.; spiral hand-drill, 3s. 6d.; thermometer, 3s. 6d. cash or exchange. "Dens," 58 Latham Street, Sunderland.

Bargain.—For sale, a first-class Irish water-spaniel bitch of the highest prize pedigree; sire, the noted champion prize dog "Mickey Free"; dam, duck ex-champion "Old Kathleen," by champion "Terance"; is just over distemper, consequently short of coat at present; to make room will take 35s., she cost when only two months old 37. 10s. Hay, Chemist, Beverley Road, Hull.

In consequence of retirement from business.—Teats, white, small, 4s. 6d.; medium, 8s.; large, 11s.; black, small, 8s.; medium, 11s.; large, 12s. 6d.; tubing, white, 5s., black, 10s. per lb.; syringes, glass, ¼-oz., 1s. 7d.; 1 oz., 2s. 6d.; corn-plasters, white felt, thin, 1s. 2d., thick, 1s. 9d. gross; bunion-plasters, thin, 2s. 9d., thick, 4s. gross; glass tubes for feeders, 1s. 2d. gross. J. Ashton, 75 Crayford Road, Holloway.

Fifty-hut (Rdgo) bicycle, straight and cranked handles, in good condition; ½-gallon iron tincture press, in perfect condition, good as new; 6-gallon Lipscombe filter, in regular use; offers solicited. Two each 2s. 9d. Cabburn's balsam, 1s. 1½d. Berry's neuralgic drops, 1s. 1½d. Rackam's tonic compound, 1s. 1½d. Clarkson's embrocation; ore each 2s. 9d. Roberts's "Poor Man's Friend," 2s. 9d. Clark's neuralgic tincture, 2s. 9d. Tweedale's hop pills, 1s. 1½d. Wright's pearl ointment, 1s. 1½d. British oils; offers for the lot, or separate. W. B. Alderton, 49 Bath Street, Leamington.

WANTED.

Two 4-gallon pear-shaped carbons, cut stoppers. Mutton, Barnoldswick, Leeds.

Galvanised-iron cisterns for turpentine, about 50 gallons. Canning, Houghton-le-Spring.

In good condition, lamp and bracket, or lamp, Maw's fig. 5 or 6. Send price to Hicks, Obemist, Enfield Highway, N.

One half-gallon tincture press; also 3-grain pill-machine, for 24; must be cheap. 101 High Street, Dudley.

Recent editions, Attfield's "Chemistry," Ganot's "Physics," Barber's "Companion." E. Cant, 2 Frederic Place, Old Jewry, E.C.

Dentist's chair, lathe, and apparatus; also show-case, with specimens. Chandler, 22 Battersea Rise.

Magneto-electric machines, mahogany-cased, new, or nearly; saleable condition; state size and lowest price. 215/9.

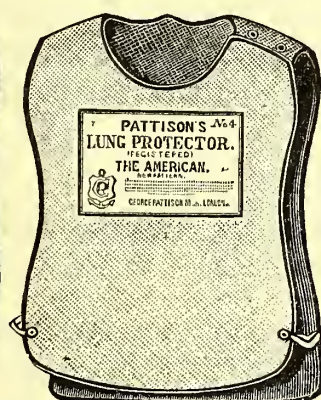
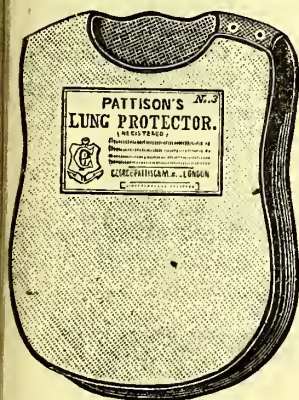
1884.

EIGHTEENTH SEASON.REGISTERED
LUNG
PROTECTOR
TRADE MARKTHE
LUNG PROTECTOR

(REGISTERED).

"An Article of Acknowledged Excellence."

The "LUNG PROTECTOR" continues to be made only from the same Fine Soft Wool which has always been used since its introduction 18 years ago. Chemists are cautioned against the mendacious assertions of unscrupulous persons who push upon them coarse and inferior imitations, the sale of which can only lead to ultimate loss of trade.



THE
LUNG PROTECTOR.
ORIGINAL PATTERN.

LUNG PROTECTOR.
THE AMERICAN.

LUNG PROTECTOR.
THE CANADIAN.

CHEST PROTECTOR.

PRICES:

	No. 0	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	
Original Pattern, Seven sizes	14/-	18/-	26/-	34/-	42/-	52/-	60/-	per doz.
The American, Six sizes ... ..	...	20/-	28/-	36/-	44/-	54/-	62/-	"
The Canadian, Six sizes ... ..	...	22/-	30/-	40/-	50/-	60/-	70/-	"

FELT CHEST PROTECTORS.

Prices...	No. 00	No. 0	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	
...	4/-	6/-	8/-	10/-	12/-	16/-	20/-	24/-	per doz.

All in Scarlet and White, and made in same Wool as the "Lung Protector."

Terms: All Wholesale Houses either allow a large Discount for Cash, or quote the goods at Reduced Net Cash prices.

FELT CHEST PROTECTORS, C QUALITY, single and double, each in five sizes.

At lower prices than above, and equal to **BEST** of other makers, but are **NOT** recommended.

GEORGE PATTISON,

INVENTOR AND MANUFACTURER,

139 ST. JOHN STREET ROAD, LONDON, E.C.

CONDY'S FLUID—IMITATIONS.

IN THE HIGH COURT OF JUSTICE (CHANCERY DIVISION).

CONDY & MITCHELL (Limited), Plaintiffs,
67 Turnmill Street, London, E.C.,

ROBERT SUMNER & CO., Defendants,
WHOLESALE DRUGGISTS, 40a Lord St., Liverpool.

We, the undersigned Defendants in this case, having, in ignorance of the legal rights of the Plaintiffs, sold disinfecting fluid under the name of "CONDY'S FLUID," such compound not being of the Plaintiffs' manufacture, hereby express our regret, and have consented to a perpetual Injunction with costs in this action.

Dated 17th day of October, 1884.

(Signed) R. SUMNER & CO.

(Witness) J. W. THOMPSON, Solicitor, Liverpool.

CONDY'S FLUID—IMITATIONS.

ANOTHER INJUNCTION, made July 28, 1884.

IN THE HIGH COURT OF JUSTICE (CHANCERY DIVISION).

CONDY & MITCHELL (Limited), Plaintiffs,
DAVID BRAINERD COLDWELL,

Of Lavender Hill, Clapham Junction, Surrey, Chemist, Trading as "Coldwell & Co.," Defendant.

Mr. Justice Pierson ordered that the Defendant be perpetually restrained from infringing the Plaintiffs' Trade Marks, and from selling any Disinfecting Fluid or using Wrappers having printed thereon any imitation of the Plaintiffs' said Trade Marks, and from selling any Disinfecting Fluid not being of the manufacture of the Plaintiffs as or for the goods of Plaintiffs; and it is ordered that the Defendant be restrained from attempting to pass off by words, labels, or otherwise, Disinfecting Fluid not of the manufacture of the Plaintiffs as or for the goods of the Plaintiffs.

J. SEYMOUR SALAMAN,

Solicitor to the Trade Mark Protection Society.

12, CHEAPSIDE.

THE ORIGINAL
ARNICATED

WHITE FELT

CORN AND BUNION PLASTERS.

INVENTED AND ESTABLISHED BY

HENRY YOUNG,

A.D. 1846,

AND FAVOURABLY KNOWN ALL OVER THE GLOBE.

PRICES-

Arnicated White Felt Corn Plasters.

Thin, 12 in box (round 6d. boxes) ...	2/4 per doz. boxes.
Thick, 12 in box (original 1s. fancy boxes) 3/4	"
Thin, 1 gross in box ...	1/10 per gross.
Thick, 1 gross in glass-top box ...	3/0 "

Arnicated White Felt Bunion Plasters.

Small Thin, 6 in box (round 6d. boxes) ...	2/4 per doz. boxes.
Thick, 6 in box (original 1s. fancy boxes) 3/8	"
Large Thin, 1/2 gross in box ...	4/6 per gross.
Thick, 1/2 gross in glass-top box ...	6/0 "

SUBJECT TO THE DISCOUNTS ALLOWED BY WHOLESALE HOUSES.

N.B.—Please see that YOUNG'S Goods are supplied, as there are many worthless imitations.

Manufactory, 72 Clerkenwell Road, London, E.C. (late of CARTHUSIAN STREET).

BY HER MAJESTY'S ROYAL LETTERS PATENT.

PROFESSOR TUSON'S
DISINFECTANTS,
DEODORISERS & ANTISEPTICS.
LIQUID AND POWDER.

These Preparations are the Invention of Prof. TUSON, of the Chemical Laboratory, Royal Veterinary College, Camden Town.

THE LIQUID is a solution of one of the most powerful non-volatile disinfectants impregnated with the BEST gaseous disinfectant.

THE POWDER, when exposed to the air, but more rapidly when damped with water, or when applied to litter, manure, or other moist substances, evolves the same gaseous disinfectant as the liquid.

Both preparations fix ammonia, prevent putrefaction and the spread of infectious diseases, DESTROY (not merely mask) bad smells, and LEAVE NO SMELL of their own. These combined qualities render them superior to, and unlike, every other disinfectant hitherto invented.

THEY WILL BE FOUND INVALUABLE in Houses infected with Cholera, Fever, Small-pox, Measles, &c.; in Hospitals, Dissecting Rooms, Ships, Factories, Stables, Cow-sheds, Dairies, Larders, Piggeries, Slaughter-houses, Kennels, Urinals, Privies, Cesspools, Water-closets, Sewers, Drains, Manure Heaps, &c.

Note.—For use in Water-Closets, Sinks, Drains, and the like, preference should be given to the Liquid, as the clogging of soil-pipes, &c., by solid Disinfectants is thereby entirely avoided.

SOLD BY ALL CHEMISTS.

WHOLESALE AGENTS:—

BAISS BROTHERS & CO., Jewry St., London, E.C.

SOLE MANUFACTURERS:—

A. BOAKE & CO., Stratford, London, E.

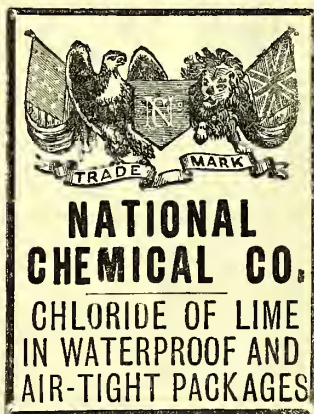
SILVER MEDAL Awarded, I. H. E., 1884

CHLORIDE OF LIME

IN PACKAGES.

Waterproof,
Air-tight, Neat,
Clean, and
convenient for use.

Odourless,
and retains its strength
unimpaired, and
will keep for years in
any climate.



		Per Box.
24-lb. BOXES, containing	50 1-lb. Packages	.....6/6
Ditto ditto	48 1-lb. ditto	.....7/0
Ditto ditto	96 1-lb. ditto	.....8/0
Ditto ditto	1-lb., 1/2-lb., & 1-lb., assorted	.....7/3
Ditto ditto	1 Gross Penny Packages	.....8/0
		Per Case.
50-lb. CASES, containing	50 1-lb. Packages	.....13/0
Ditto ditto	10 5-lb. ditto13/0
Ditto ditto	100 1-lb. ditto14/0
Ditto ditto	200 1-lb. ditto16/0
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Also in 1 cwt. and 1/2-cwt. Cases, to meet the requirements of large buyers and the Export Trade.
A Liberal Discount allowed on all Orders of 5 Cases or 10 Boxes and upwards. Special Quotations for Contract or Large Orders.
Sample Box or Case can be had from any London or Country Wholesale Druggists. All Goods Delivered Free in London.

Write for Prices of the N. C. Co.'s Chloride of Lime in Jars, Bottles, Tin Boxes, Casks, Cases, etc.

NATIONAL CHEMICAL CO.,
29 Suffolk Grove, Gt. Suffolk St., Southwark, S.E

GENUINE EMERY, EMERY CLOTH, AND BLACK LEAD.**JOHN OAKLEY & SONS,**

MANUFACTURERS OF

Glass Paper, Emery and Glass Cloth; Emery, Black Lead, Pumice, Putty Powder, Crocus, Urn Powder, Tripoli, Rouge, Plate Powder, Steel Polish, Furniture Polish, Knife Boards, Brunswick and Berlin Black, &c.

OAKLEY'S WELLINGTON KNIFE POLISH,

Prepared expressly for Oakley's Patent India-Rubber Knife Boards, Buff Leather Boards, and all the Patent Knife Cleaning Machines. Sold in Facets, 8d. each; and Tins, with perforated Tops to prevent waste, 6d., 1s., 2s. 6d., and 4s. each.

OAKLEY'S NON-MERCURIAL SILVERSMITH'S SOAP,

For Cleaning and Polishing Silver, Plate Glass, Marble, &c. Tablets, 6d. each.

OAKLEY'S POLISHING PASTE,

For Cleaning Brass, Copper, Tin, Pewter, &c., &c. Tins, 1d., 2d.; Pots, 6d. and 1s. each.

WELLINGTON BLOCK BLACK LEAD,

In 1d., 2d., and 4d. Blocks, and 1s. Boxes.

WELLINGTON EMERY & BLACK LEAD MILLS, Westminster Bridge Road, London. S.E

Highest Award and Prize Medal, Philadelphia Exhibition, 1876; and Boston, 1883. Gold Medal, Crystal Palace, 1884.

A. SANDERSON & CO.,

WHITE LEAD, PAINT, COLOUR AND VARNISH WORKS,

HUMBER BANK, ROPERY ST., AND JACKSON ST., HULL.

PAINTS MIXED READY FOR USE, ALL COLOURS,

Best Quality, in 1, 2, 4, 7, 14, and 28 lb. Tins, 34s. per cwt., carriage paid.

SANDERSON'S IMPROVED DAMP-RESISTER, for the effectual cure of damp walls.

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PINK PRIMING PAINT, EXTRA STRONG PATENT DRYERS, PUTTY, &c., &c.

SHOW CARDS, SAMPLES, AND PRICES ON APPLICATION.

**BROWN'S SATIN POLISH.**

Highest Award, Philadelphia, 1876. Gold Medal, Berlin, 1877. Highest Award and only Medal, Paris Exhibition, 1878. Highest Award, Melbourne, 1881. Highest Award and only Medal, Frankfort, 1881. Highest Award and only Medal, Amsterdam, 1883.

Put on by Sponge attached to Wire and Cork in each Bottle. No Polishing Brush required. Dries in a few minutes. Can be used by any lady without soiling her fingers.

The "Satin Polish" is the most Elegant Article of the kind ever produced.

LADIES' SHOES, which have become Red and Rough by wearing, are restored to their ORIGINAL COLOUR AND LUSTRE, and will not soil the skirts when wet. TARNISHED PATENT LEATHER is improved by it.

For Travelling Bags, Trunks, Harness, Carriage Tops, &c. it is unequalled. It will not harden the Leather nor crack. It is not a spirit varnish. In Cartons, 4s. 6d. per dozen; 52s. per gross. Packed in Sawdust, 3s. 9d. per doz.; 43s. per gross. 2½%.

AMERICAN MAGIC BRONZE

Is the best in the Market, and it can be used with good effect on Ornaments, Picture Frames, Iron and Fancy Work generally, as well as for Boots and Shoes. In Cartons, 7s. per dozen. 2½%.

SOLD BY ALL WHOLESALE CHEMISTS AND DRUGGISTS' SUNDRIESMEN.

Factories: BOSTON: MONTREAL: 18 & 20 Norman's Buildings. ST. LUKE'S, LONDON.

FOULKES' CEMENT,
AS USED AT ALL THE GOVERNMENT MUSEUMS.

Suited for any substance, from glass and china to leather, wood, or iron, and the articles joined bear washing in boiling water.

The large range of materials to which this cement is applicable, its transparency, strength, and facility in use, and the readiness with which it adheres, renders it, without doubt, THE MOST USEFUL EVER INVENTED. It is equally applicable to articles of the coarsest or the most delicate construction.

The great success which attended its introduction, now more than 20 years ago, has given rise to a host of imitations, under as many various titles, some of these being of an exceedingly crude character, and most unsatisfactory to both vendor and buyer. The above celebrated Cement is uniformly prepared and neatly put up, and is guaranteed to remain unchanged in any climate.

Professor ARCHER, Edinburgh.—"I can testify most unhesitatingly to its great utility in the various occasions which continually arise in Museum work for a first-rate Cement. I have invariably found yours superior to all others, and have extensively recommended its use to all my friends."

Sold in bottles at 6d. and 1s. (equal to three of the smaller)

FOULKES' TOILET & NURSERY POWDER.

IMPALEPABLE AND DELICATELY PERFUMED.

This unique Powder possesses the emollient properties of fuller's earth, free from colour, and in a high condition of purity.

Dr. ALEX. MILNE, Edinburgh, in his recent book entitled: "The Child, and how to Nurse it," says of this favourite powder, "WE RECOMMEND IT IN PREFERENCE TO ALL OTHERS."

Sold in Boxes at 6d. and 1s. Wholesale at the Patent Medicine Houses and Druggists' Sundriesmen, or from

W. J. FOULKES, OPERATIVE CHEMIST, BIRKENHEAD

"SAMPHIRE SOAP."

IMPORTANT TO THE TRADE !

With a view to furthering the sale of this new but already highly popular SOAP (which gained a GOLD MEDAL at the I. H. E., 1884), J. C. & J. FIELD have published a pamphlet on

"TOILET HYGIENE,"

Containing a full and popular account of the composition, manufacture, &c., of "SAMPHIRE" and other TOILET SOAPS. Copies of this they propose to send on application, stating number required, for

GRATIS DISTRIBUTION!!

Aming Customers. This, if well carried out, cannot fail to produce a Large Sale, which the wholesale price of the Soap will make highly advantageous.

APPLY TO

J. C. & J. FIELD,
GOLD MEDAL OZOKERIT WORKS, LONDON, S.E.

CHISWICK SOAP COMPANY,
CHISWICK, LONDON, W.,

SOFT SOAP

MANUFACTURERS, WHOLESALE AND EXPORT.

"IMPERIAL" SOFT SOAP	} Manufactured specially for Domestic use, and packed in 1, 2, 3, 3½, 4, and 7 lb. Tins.
"FINEST PALE"	} Very pale Amber colour, odourless. Packed in barrels, firkins, half-firkins, and 14-lb. tins.
"EBB," "BB," "BL,"	} The usual qualities, and kept in all packages to suit buyers.
CARBOLIC	} Contains 10% Calvert's No. 5 Acid. For Dogs and Cattle, making Sheep Dip, and general disinfecting purposes. Packed in 1, 2, 4, and 7 lb. tins; 14, 28, 56, and 112 lb. iron drums.
OLIVE	} The B.P. "Sapo Mollis," made from finest Olive Oil and pure Potash, in tin, firkins, and jars.

EWENS' CLARIFIED LARD, MARROW, SUETS, AND OILS.

JAMES EWEN & SONS are induced to give further publicity to these articles, the continued demand by all who have used them being satisfactory proof "that where purity of basis" in ointments, &c., is required, they are most desirable.

By their method of purifying, the fats are not chemically altered, but simply divested of all particles tending to decomposition, they are consequently available for the most delicate preparations.

Adeps. Benz. B. P. and Pharm. Lard (*vide* P. J. Vol. I. No. 8). Direct, "for Cash only," from

JAMES EWEN & SONS' CLARIFIED FAT WORKS,

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Or through any of the Wholesale Houses, with their usual credit, at a small advance.

CAUTION.—See that each package bears their label with name and weight.

GUEST'S HOUSEHOLD REQUISITES.

GUEST'S FURNITURE POLISH REVIVER.—An entire new preparation, brilliant polish, little labour, and no finger-marks. In patent air-tight tins.

GUEST'S FURNITURE CREAM gives a brilliant polish with half the usual labour.

GUEST'S SILVERSMITHS' PLATE POWDER.—A new preparation, warranted to prevent tarnishing three times longer than any other.

GUEST'S CUTLERY POLISH gives a brilliant mirror-like lustre. Sold in perforated canisters.

GUEST'S BRASS POLISH.—Splendid polish, rich colour, with little labour.

GUEST'S BRUNSWICK BLACK.

W. G. & S. have every confidence in recommending above to the public, and earnestly solicit a trial. Samples and price lists on application.

WM. GUEST & SON,
NEPTUNE WORKS, PORTMAHON, SHEFFIELD.

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BURROUGHS
SPIRITUS RECTIFICATUS 2.3

**SPIRITS
OF WINE**

THE BEST ENGLISH GRAIN SPIRIT
FREE FROM FUSEL OIL
5 gallons 60 over proof at 19/10 net cash
Special Quotation for Quantity
DUTY FREE FOR EXPORT 4/4

Best BURROUGHS
Methylated
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AT LOWEST PRICES
BURROUGHS
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Regent Wharf, Copperfield Road, Mile End, London, E.
FROM RATCLIFF.

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A. MACNAIR & CO.,
20 DUTTON STREET, MANCHESTER.

SHELLACS, GUMS & SPIRITS (Pure and Methylated).

PURE SPIRITS of WINE

For Tinctures, Essences, Perfumes, &c.

A. MACNAIR & CO.,
RECTIFIERS,

20 DUTTON STREET, MANCHESTER.

Beg to call the attention of CHEMISTS AND DRUGGISTS to their under-mentioned prices of Pure Spirits of Wine:—

Strength per cent.	Specific gravity.	Price per gall.
63 over proof	0.8238	20/10
60 " "	0.8298	20/4
55 " "	0.8368	19/10
50 " "	0.8482	19/4

Cask on Delivery. Jars to be returned or paid for.

For Exportation, Cask included, 4/ 60 o.p., F.O.B.

Orders from the country must be accompanied by a remittance, including the price of the jars, which are charged as follows:—2 galls. 2/6; 4 galls. 4/0; 5 galls. 5/0; 6 galls. 6/0. When the Empties are returned, the money will be repaid.

Also **ABSOLUTE ALCOHOL**. Prices on application.

PRONK, DAVIS & CO.,

ANILINE DYE AND CHEMICAL AGENTS,

41 GREAT TOWER STREET BUILDINGS,
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Specialities for Varnishes and Wood Stains.

THE FINEST AND CHEAPEST

SPIRIT BLACK

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BRONZE POWDER, GOLD AND METAL LEAF.

Vermillion, Vermillionette, Ultramarine.

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METHYLATED SPIRIT & FINISH

Supplied of the best quality in wholesale quantities by

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IMPORTERS OF AND MERCHANTS IN ALL KINDS OF PITCH, OILS, &c.

Hard and Soft Stearine Pitch	Palm Oil Pitch	Brimstone, Ashes, &c.
Cotton Seed and Patent "	Hot Neck Grease	Roll and Flour Sulphur
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COLTHURST & HARDING, BRISTOL.

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MANUFACTURERS OF
WHITE LEAD, WHITE ZINC, PAINTS, FINE & PULP COLOURS,
FOR PAINTERS AND PAPER STAINERS,
TEREBINE AND PATENT DRIERS.

HIGH - CLASS VARNISHES

Of every description, for Painters, Coach Builders, and Japanners.
PATENT ENAMEL COMPOSITION, for Ships' Bottoms and Ironwork.

PAINTS

MIXED FOR USE, in 1, 2, 4, 7, and 14 lb. Tins. Universally acknowledged
to be the Best in the Market.

Light and Dark Hard Drying Raw and Boiled Linseed Oil and American Turpentine.

IMPORTERS OF PETROLEUM, BENZOLINE, GASOLINE, AND OILS.

OIL REFINERS AND SOFT SOAP BOILERS.

Lists and Special Quotations on application. Special Attention to Export Orders.

Proprietors of the CELEBRATED ELECTRIC LIGHT OIL, the most
Beautiful and Perfect Illuminator.

PAINTS. VARNISHES. WOOD STAINS.



VIENNA.

READY-MIXED PAINTS,

In 1, 2, 4, 7 and 14 lb. Tins.

These goods are packed in the "Patent
Self-opening Tins," which require no cut-
ting. Tins painted to correspond with con-
tents, and enclosed in printed wrappers.

28 USEFUL and SALEABLE TINTS,

Guaranteed to Dry Well.

HANDSOME SHOW BOARDS

(Framed and Glazed), with Specimens of
the Colours, supplied.

LOANS AND SAMPLE CARD
ON APPLICATION.

THOMAS S. JACKSON & SONS,

MANUFACTURERS OF

OIL VARNISHES

(Every description).

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BRUNSWICK AND BERLIN BLACKS.

TEREBINE.

FRENCH POLISH.

WHITE AND BROWN HARD SPIRIT
VARNISHES.

KNOTTING. LACQUERS.

DRYERS and } of the finest
GROUND COLOURS } quality.

DRY COLOURS, all Prices and Shades.

IMPORTERS OF OCHRE,
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WOOD STAINS,

"SPECIAL."

MAHOGANY, OAK, WALNUT

SATINWOOD.

ROSEWOOD, EBONY.

Draught, or packed in 6d. bottles (8 oz. S.)
capsuled and wrapped. Also in powder.

SHOW BOARDS,

With specimens of the Stained Woods,
supplied.

The demand for these Stains is steadily
increasing. They possess great richness
and truth of colour, and

ARE OFFERED AT A REASON-
ABLE PRICE.

NOTICE.—All communications should be addressed to the Office—

LAYTON'S BUILDINGS, 199 HIGH STREET, SOUTHWARK, LONDON, S.E.

There is no connection with any firm of a similar name.

ESTABLISHED 1853.

DUBBIN**DALES'****GOLD MEDAL
PORPOISE OIL****DUBBIN,**

For Waterproofing, Softening and Preserving Boots, Harness, Leggings, Belting, &c. Awarded 3 First Prize Medals, 2 Gold. Does not prevent the boots blacking. Free from unpleasant odour. Restores the nature and softness to leather which it loses in wear. Put up in elegant style, and always gives satisfaction. Tins, 1d., 2d., 4d., 1s., and 2s. 6d. Special tins for export. Show-cards, transparencies, &c., supplied. Hand-some Snow Cases for first order of 50s. For further particulars see page 61, in 1883 Diary. Wholesale from Wholesale Houses, and

287 CRYSTAL PALACE ROAD, LONDON, S.E.

"LA BRILLANTINE"

(REGISTERED).

SOLD IN 6d. AND 1s. BOXES.

METALLIC POWDER

Is the best, cheapest, and most effective Powder for cleaning and polishing Metals and Glass (especially Brass). It is used by the Life, Horse, and Dragoon Guards, the Fire Brigades, &c., &c.

PROPRIETORS—

J. F. BAUMGARTNER & CO.,
25½ NEWMAN STREET, OXFORD STREET,
LONDON, W.

GENUINE OIL OF MUSTARD SEED

Is strongly recommended as a safe and effectual remedy in cases of Rheumatism, Gout, Rheumatic Gout, Sciatica, Lumbago, Headache, Pains in the Stomach, Spasms, Bruises, Chilblains, &c. Retail in Bottles, 1s. each.

Imported by **J. H. & S. JOHNSON, Wholesale Druggists,**
6, 8, & 10 WHITECHAPEL, AND 7 CHURCH STREET, LIVERPOOL.

GUMS**G. F. H. CLARK & CO.,**

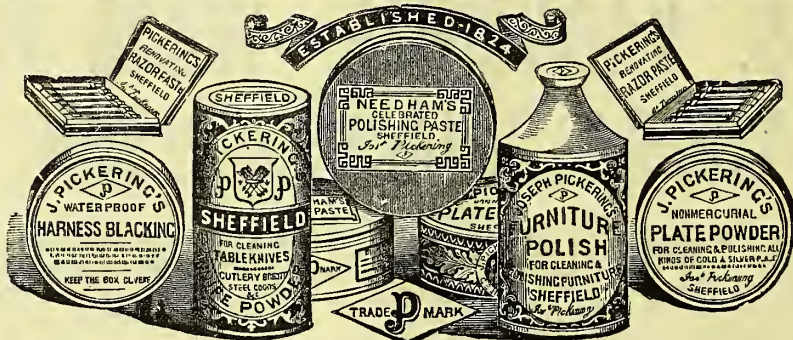
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SHELLACS, CUTCH, & GENERAL DRYSALTERS.

Drugs of all descriptions.

CHEMICALS, ESS. LEMON, GLUES, GELATINES.

SAMPLES AND PRICES ON APPLICATION.

ESTABLISHED 1824.**NEEDHAM'S**

Gold Medal, Adelaide, 1881.
Order of Merit, Melbourne, 1880.
Diploma of Merit, Vienna, 1873.

Established over Half a Century.

For Cleaning and
Polishing Brass, Copper,
Tin, Britannia Metal,
&c. &c.

POLISHING

Pickering's Furniture Polish, Plate Powder, Knife Powder,
Brunswick Black, Razor Paste, Harness Blacking, &c.

PASTE.

Wholesale by London, Sheffield, Birmingham, and Wolverhampton Merchants,
and Retail by Chemists, Ironmongers, and Grocers.

JOSEPH PICKERING & SONS, SHEFFIELD.

Electric Polish! Electric Polish!! W. KEMP & SON, HORNCASTLE.

*For cleaning Silver, Copper, Brass, Steel, & all bright metals,
diminished labour, less trouble and expense, use*

LEWIS'S ELECTRIC POLISH,

which will make old and tarnished articles bright as new. It is a liquid preparation, and entirely different to anything yet introduced. It contains no acid, mercury, or injurious chemicals, easily applied, and at once produces a bright, mirror-like surface, and lasting. Tradesmen and others who require a polish for their Scales, Weights, Brass Stalls, &c., it is invaluable. For domestic use, Silver, Electro Plate, Steel, Door Handles, &c., it will prove a great boon. When once tried, it will never give place to any other. An outlay of 6d. for a bottle will never be regretted. Price 6d. and 1s. per bottle, of all Chemists.

SOLE MANUFACTURER,

D. J. LEWIS, Chemist, &c., High St., Acton, W.

Wholesale London Agents—SANGER & SONS; G. B. KENT & SONS;
S. MAW, SON & THOMPSON; and SOUTHALLS, Birmingham.
The Proprietor can with every confidence recommend this to the Trade.

3 Prince of Wales Crescent, Kentish Town,
London, N.W., January 16, 1884.

SIR,—I have much pleasure in informing you that the bottle of "ELECTRIC POLISH" I bought of you does even more than you promised it should do. I gave it a fair trial with gold, silver, and brass, and found it to give a far more lustrous and lasting polish than any paste or powder I ever tried, and when once a bright surface is obtained it is some considerable time before it becomes dull again. It needs only to be known to be appreciated. You are at liberty to make what use you like of this letter, and I trust the sale of your Polish will continue to increase, as such a very useful and economical preparation deserves to.

I am, Sir, yours truly,

To Mr. LEWIS, Chemist, &c.

M. HERSANT.

Apsley Terrace, Acton, W., April 10, 1884.

Mrs. CONRAD HOWELL has much pleasure in testifying to the excellence of the ELECTRIC POLISH prepared by Mr. LEWIS. It seems to suit all metals equally; it has completely restored some tarnished silver which Mrs. H. was about to send to a Silversmith to be cleaned. No one who tries it can doubt the result.

PURE CRUSHED LINSEED,

CONTAINING ALL THE OIL. A strictly pure article, all other seeds, dirt, &c., being entirely removed. It is lightly crushed from a special kind of large bold seed, which gives a larger proportion of meal to husk than the ordinary commercial Linseeds. Price 18/6 per cwt., bag free. Special quotations for 5 cwt. and upwards.

NOTE.—This quality can be obtained from Messrs. Barclay & Sons, 95 Farringdon St., London, in 1-cwt. bags at above price; smaller lots 20/ cwt.

CRUSHED LINSEED No. 2,

Contains all the Oil, and is crushed from sound good Linseed, 17/6 per cwt., bags free.

CRUSHED LINSEED No. 3,

Contains all the Oil, and is crushed from sound good Linseed, 16/6 per cwt., bags free.

CRUSHED SICILIAN LINSEED,

The best for feeding purposes; merely requires scalding to make a stiff jelly, and when introduced at once creates a large demand; bags free.

PURE LINSEED MEAL,

WITHOUT OIL. Best quality only, 11/6 cwt., bags free.

All ground in our own mills, and always sent out freshly crushed.

Special Quotations for Quantity.

Above can be had with the Husk wholly or partially sifted out at an advanced price. Correspondence on this subject is invited.

Applications for Samples solicited.

W. KEMP & SON, Seed Crushers, HORNCASTLE.

DAVID SALMOND & SON,

SEED CRUSHERS AND OIL REFINERS,

MANUFACTURERS OF

PURE LINSEED & COTTON CAKES,

ALSO

R A P E C A K E S

FOR MANURE PURPOSES,

WILMINGTON OIL MILLS, HULL, YORKS.

Following is COPY of a REPORT by PROFESSOR AITKEN, of Edinburgh, on our
"D. S. PURE" LINSEED CAKES:—

"CHEMICAL LABORATORY, 8 CLYDE STREET, EDINBURGH, 3RD DECEMBER, 1883.

"The Analysis of this sample of Linseed Cake is precisely what the Analysis of a first-class Linseed Cake ought to be. I have carefully investigated the Sample in every way, and find it to be a pure and genuine Linseed Cake, in excellent condition.

(Signed) "A. P. AITKEN, D.Sc.,

"Chemist to the Highland and Agricultural Society."

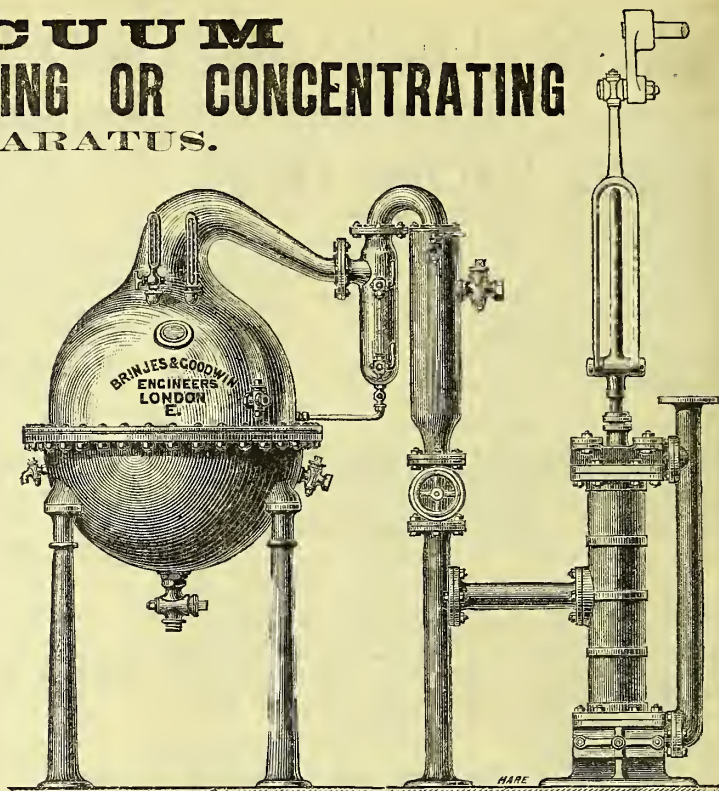
VACUUM BOILING, EVAPORATING OR CONCENTRATING APPARATUS.

This apparatus is used for boiling and evaporating at very low temperature, whereby the product is not deteriorated by excessive heat, which frequently occurs in other Evaporators.

Made in Copper or Iron, from 1 ft. to 12 ft. diameter.

Several in work for years. All kinds of Pans, either stationary or tilting, made to order.

PRICES according to size and other particulars.



BRINJES & GOODWIN, WHITECHAPEL ENGINE WORKS,
FIELDGATE STREET, LONDON, E.

THE "SIMPLEX" PILL MASSER.

Eastern Dispensary,
Leman Street, London, E.,
May 29, 1884.

Gentlemen,—I have long wished to meet with a really efficient MECHANICAL substitute for the Pestle and Mortar. Your "Masser," in my hands has been so satisfactory, that I felt justified in introducing it to the notice of the Dispensary Department of the London Hospital.

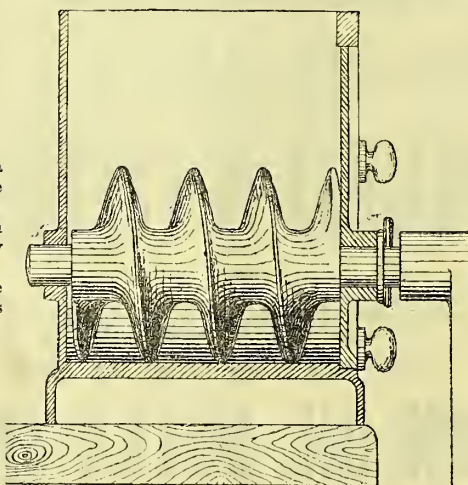
There it has been highly appreciated—its Time and Labour Saving qualities at once proving its value.

I remain, yours faithfully,

C. W. LEAPINGWELL,
M.R.C.S., Eng.,

Resd. Med. Officer, Eastern Dispensary.

To the U. M. & C. M. Co., Ltd.,
Queen Victoria Street.



AS EXHIBITED

AT THE

INTERNATIONAL
HEALTH
EXHIBITION,
1884.

ALSO

POWDER MIXERS,
CRUSHERS,
MEAT CUTTERS,
SAUSAGE MACHINES,
&c., &c.

Made in sizes to mix from $\frac{1}{2}$ lb. to 20 lbs. at a time.

The UNIVERSAL MIXING & CHOPPING MACHINE CO., LD

11 QUEEN VICTORIA STREET (Room 505), LONDON, E.C.



IMPROVED AND LATEST MACHINERY

PARIS, 1878.

FOR

VIENNA, 1873.



DRUG GRINDERS,

WHOLESALE

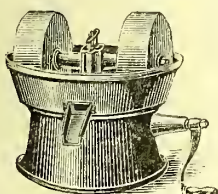
CHEMISTS & DRUGGISTS,



PAINT AND COLOUR MANUFACTURERS, AND OTHERS.

HAND EDGE RUNNER MILL.

With Iron or Granite Rollers and Bed.

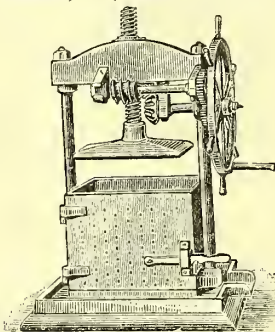


HAND MIXING AND CRUSHING PAN MILL.

For Ointments,
Pastes,Powders,
&c., &c.

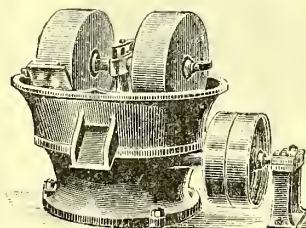
COMPOUND PRESS.

For Tinctures, &c. (made in Wood and Iron).

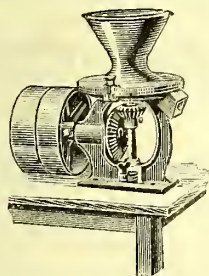


POWER EDGE RUNNER MILL.

With Iron or Granite Rollers and Bed.

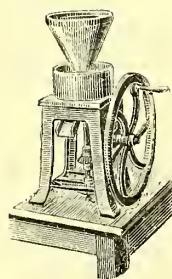


NEW DRUG MILL.

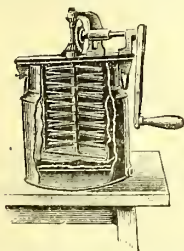
For Ginger, Roots, and all kinds of friable
materials.

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For Dry Powders.

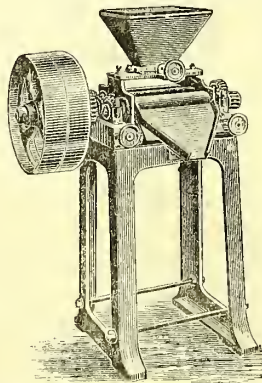


NEW HORIZONTAL MIXER,

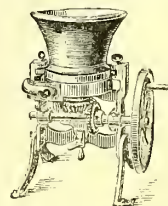
For Amalgamating Compounds, &c. (made with
and without casing).

NEW GRINDING MILL,

For Pastes, Colours, and Inks.



IMPROVED PAINT MILL.

For Mixing and Grinding Colours in Water or
Oil ready for use.

MACHINES FOR SPECIAL PURPOSES, EVAPORATING PANS, &c., MADE TO ORDER.

Prices and particulars on application to

FOLLOWS & BATE, LIMITED, Engineers, DUTTON STREET WORKS, MANCHESTER.

SPONG'S (Registered) BEDFORDSHIRE PIG POWDERS



A CERTAIN CURE FOR ALL PIG DISEASES,

And given occasionally causes the
Pig to lay on flesh rapidly.

The Proprietors will be glad to assist Chemists in introducing the

BEDFORDSHIRE PIG POWDERS

By supplying Show Cards, Posters, and Handbills, with Name and Address, FREE by Parcel Post.

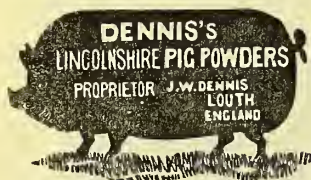
The Unsolicited Testimonials constantly coming to hand from large PIG KEEPERS, BREEDERS, and EXHIBITORS, and the rapidly-increasing sale, is the greatest proof of their value.

LONDON WHOLESALE AGENTS:—BARCLAY & SONS, SANGER & SON, EDWARDS & SON, SUTTON & CO., HOVENDEN & SONS, THOMPSON & CO., &c., &c.

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DENNIS'S CELEBRATED LINCOLNSHIRE PIG POWDERS.



THESE POWDERS have now been before the Public for Thirteen years. The large and increasing sale, together with the numerous testimonials constantly being received, prove that the public are fully alive to the fact that they are the BEST MEDICINE for DISEASES to which PIGS are subject, and are also the best CONDIMENT known. The publicity given to this preparation ensures a good sale wherever introduced, and the Proprietor is desirous to assist all who will undertake to keep them in stock by supplying them with Show Cards, Posters, and Counter Bills, with name and address thereon. They are put up in Packets containing half-dozen and one-dozen Powders, and Retail at Fivepence and Tenpence. The Fivepenny Packets in two dozen and three dozen, and the Tenpenny in one dozen boxes. Retailers will be charged 40/ per gross for Fivepenny, 80/ per Gross for Tenpenny Packets, less 10% One Month, by

W. Sutton & Co.; Harvey Newman & Co.; Thompson, Millard & Co.; Hovenden & Sons; Barclay & Sons; Sanger & Sons; Newbery & Sons; and W. Edwards & Son, London. A. Woodcock, Norwich. R. Daniels, Derby. Goodall, Backhouse & Co.; Hirst, Brooke & Hirst, Leeds. Lofthouse & Co., Hull. Raimes & Co., York; and from all Wholesale Houses;

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HORSE, CATTLE, AND SHEEP MEDICINES.

BY ROYAL APPOINTMENT.



By Special Warrant,
Dated 27th December, 1865.

DAY, SON & HEWITT,

INVENTORS AND SOLE PROPRIETORS OF THE



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For all Disorders in Horses, Cattle, Calves, Sheep, and Lambs.

Patronised for 50 years by Royalty, and the principal Stock Breeders, Horse Proprietors, and Agriculturists of the British Empire.

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"CHEMICAL EXTRACT," for all External Injuries, and Ewes Lambing.

"GASEOUS FLUID," for Colic, Scour, or Diarrhoea, and Debility.

"RED DRENCH," for Cleansing Cows and Ewes, and for Inflammation.

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DOG
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MANUFACTURERS OF ALL VETERINARY PREPARATIONS, EVERY KIND OF
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2 "	£1 5 6 "	£1 3 0 "	1 "	7 16 0 "	7 10 0
4 "	2 8 0 "	2 4 0 "			

Observe the Trade Mark.—"A Horse's Head on the top of each Pot, and the signature, R. J. James."

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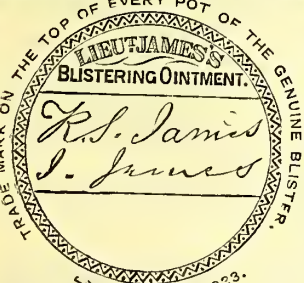
JAMES v. JAMES.—LORD ROMILLY, the Master of the Rolls, on February 23, 1872, declared "that I had an equal right with other members of the Inventor's family possessing the receipt to make and sell this Blister."—R. J. JAMES.

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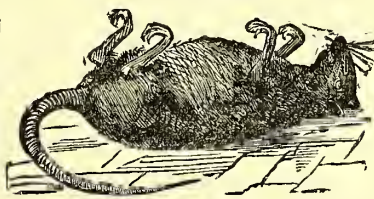
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Advertised in "Bell's Life" 49 years. Beware of Spurious imitations.

100 Rats destroyed for a Shilling by BARBER'S PHOSPHOR PASTE,

WRAPPED NEATLY FOR THE COUNTER.

Handsome, attractive Posters supplied; if conspicuously placed will command constant sale.

Kills Rats, Beetles,
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THE DEAD VERMIN
DRY UP
WITHOUT SMELL.



Guaranteed the best
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the world.

3d, 6d., 1s., 2s. 6d., and 5s. Tins. Also

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In 3d., 6d., and 1s. Packets. Kills Mice upon the spot.

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ASK FOR BARBER'S, AND SEE THAT YOU GET IT.

WORKS, SALISBURY. ESTABLISHED 1838.

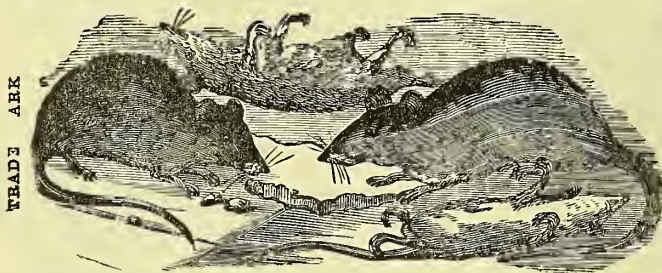
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Has an immense Sale, and wherever introduced never fails to give satisfaction.—Mice appear attracted to it as by magic, eat it readily, tumble over, and die on the spot. Rats usually die in their runs.—Parties troubled with Vermin may be cleared at once, either from Stacks, Houses, or Ships.

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Sold in Packets, 3d., 6d., and 1s. each.

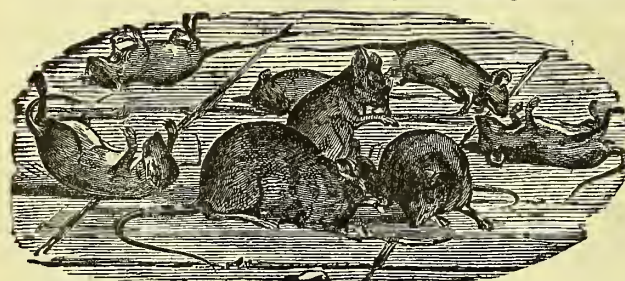
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SANFORD'S RAT POISON!

Is admitted by Hundreds that have used it to be the best Preparation known. 120 rats were found dead by one dressing. Has never been known to fail.



SANFORD & SON, having had 28 Years of Practical Experience in Poisoning Rats, Mice, &c., can with confidence recommend it as the Best Preparation known.

Read the following Testimonials, which have been selected from many that have been received:—

SANFORD'S RAT POISON.—It is undoubtedly the best preparation known. It does not require spreading on bread, as is usual. Rats eat it readily, and are found dead.

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OF
Bugs, Fleas, Lice, Flies, Gnats, Cockroaches,
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E. GALZY, Manufacturer,
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For Coughs, Hoarseness, Catarrh, and all other pectoral diseases. Highly esteemed,
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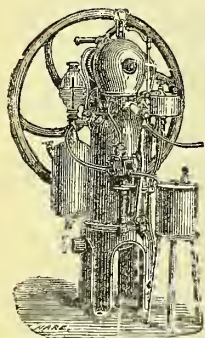
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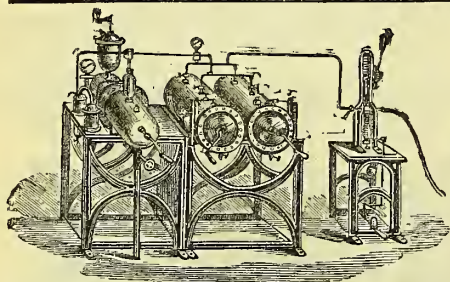
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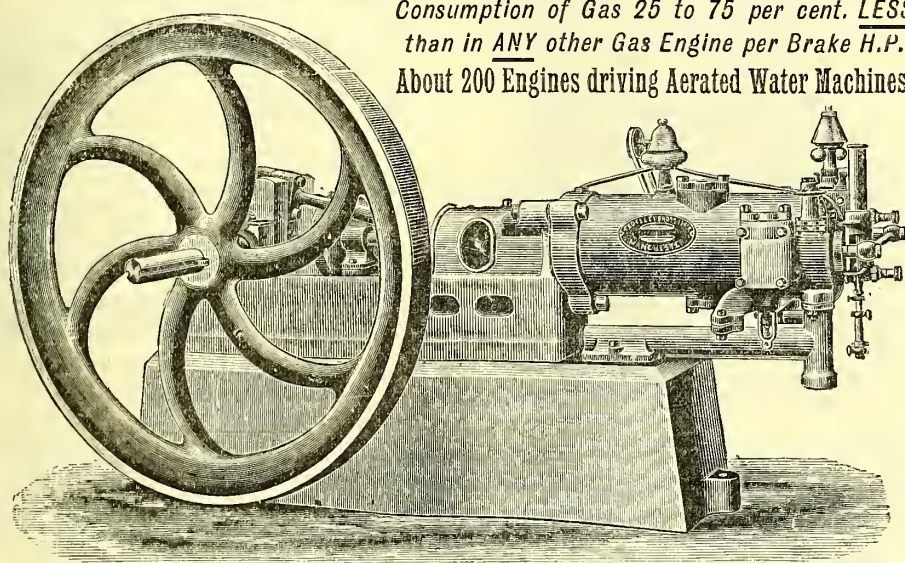
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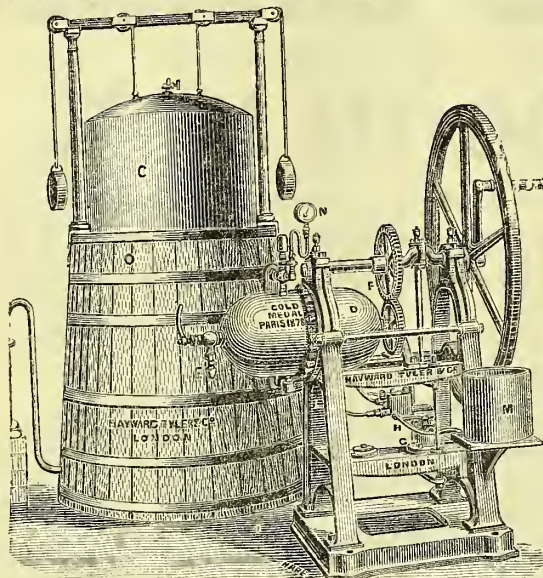
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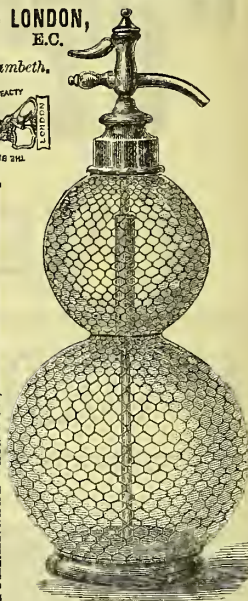


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Fig. 2.

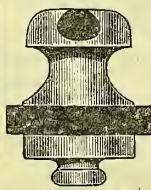


Fig. 3.



Fig. 1.

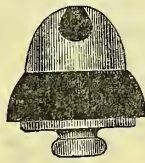


Fig. 7.

It will be seen by reference to figs. 6 and 7 that I now form a button or nut under the base of my Stopper for the purpose of easily extracting same from the Bottle without spoiling or removing the indiarubber from the body of the Stopper. This is readily accomplished by the use of a suitable tool made to fit on the nut; the Stopper being grasped is withdrawn from the bottle in a second, without injury to the Stopper.

Therefore, it will be a great saving to Mineral Water Manufacturers, as by the old way of extracting the Stoppers from the Bottle, when necessary, very often the indiarubber is spoiled, and the time it takes by this slow process is worth more than the Bottle itself; so that in many instances Bottles with spoiled or dirty Stoppers are put aside as worthless stock.

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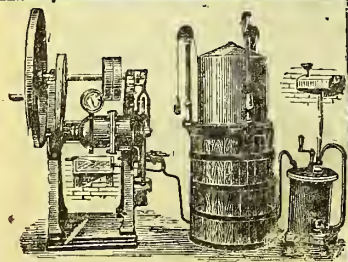
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Bottles fitted with these stoppers are easily and quickly opened by simply pulling the stopper on one side with the finger, (as shown in the illustration), thereby causing the pressure-gas to escape, and the stopper immediately to fall. The shape of the stoppers, to which this great advantage is due, gives them also a neat and elegant appearance in a filled bottle unsurpassed by glass or any other stopper.

PRICES :

Stoppers and Rubbers, complete	...	...	...	...	...	6/6 per Gross.
Stoppers without Rubbers	...	...	...	...	...	4/ "
Fitted Bottles, full size	...	...	...	...	...	22/ "
" splits	...	...	...	...	...	20/6 "

The only Rubbers used are the 19B SILVERTOWN, and these are the best obtainable.

Sample Stoppers gratis and post free. A fitted sample bottle sent post free on receipt of 12 stamps.
Sample Half-gross, full-sized Bottles, fitted with Stoppers complete, on receipt of 13s., including package but not carriage.

ANNUAL ROYALTY—ONE GUINEA.

A. B. VANES, 111 PARK ROAD, ASTON, BIRMINGHAM.



SODA WATER MACHINE.

EASY TERMS.

CATALOGUE FREE.

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N. G. WILCOCKS,
BACK STREET, BATH.



MANUFACTORY:
BATH CITY BRASS FOUNDRY
AND IRONWORKS,
BECK STREET.
N. G. WILCOCKS,
BATH, SOMERSET,
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PURVEYORS BY SPECIAL APPOINTMENT
TO HER MAJESTY THE QUEEN.

MUMBY'S MINERAL WATERS

Are Perfectly Pure and of First-class Quality.

**SODA WATER, POTASS WATER,
SELTZER WATER, TONIC WATER,
GINGER ALE, LEMONADE, &C.**

IMPORTANT TESTIMONIAL.

H.M.S. "SERAPIS," Portsmouth, 25th May, 1876.

Messrs. C. MUMBY & Co.,
Gentlemen,—The Soda Water supplied by you for the use of H.R.H. The PRINCE OF WALES on board H.M.S. "Serapis" was of excellent quality, kept in good condition, and gave great satisfaction to His Royal Highness, his suite, and the officers of the ship.

(Signed) THOMAS BRADBRIDGE, Paymaster.
T. W. SCADDAN, Chief Steward.

These Celebrated Waters can be supplied in
Syphons with Silver-plated Tops.

GOODS CARRIAGE PAID. PRICES ON APPLICATION.

34 THE HARD, PORTSMOUTH.

London Agents :—Walker & Moore, 17 Redcross St.

T. & F. J. TAYLOR'S AÆRATED WATERS, Newport Pagnel.

ESTABLISHED 1835.

**SODA, POTASH, SELTZER, AÆRATED (without
Alkali), and LITHIA WATERS,
LEMONADE AND GINGER ALE.**

Each Bottle is protected by a Label bearing the Signature
of the Firm.

Purity and Excellence of the Water certified by Analysis
by Professor ATTFIELD, Ph.D., F.C.S.

"ABSOLUTELY PURE."
SEE ANALYSIS, sent post free on application.



REGISTERED.

ELLIS'S RUTHIN WATERS.

ESTABLISHED 1825.

"CRYSTAL SPRINGS." Renowned for their purity for HALF-A-CENTURY. Situated on the premises, and exclusively the private property of the Firm.

Soda, Potash, Seltzer, Lemonade, Aromatic Ginger Ale. For Gout; Lithia Water, and Lithia and Potash Water. Corks branded—"R. ELLIS & SON, RUTHIN," and every Label is registered, and bears their Name and Trade Mark.

Sold Everywhere, and Wholesale of

R. ELLIS & SON, Ruthin, NORTH WALES,
Manufacturers to the Royal Family.

London Agents: W. BEST & SONS, Henrietta St., Cavendish Square.

AERATED AND MINERAL

THE CHEMISTS' ASSOCIATION, LTD.

THE ONLY MEDAL,
LONDON 1881.

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THE HIGHEST MEDAL,
BRADFORD, 1882.

This being the ONLY Company that supplies *exclusively* to Hospitals and Chemists Manufactured Mineral Waters of the highest class and of specified formula, the Directors beg to hand you at foot prices for same in Bottles and Syphons, and trust to be favoured with a sample order.

							Bottles, per doz.	Syphons.
Carbonated Water	...	...	...	...	...	at	1/0	1/6
Soda	...	5 Grains to half-pint	...	...	...	"	1/0	1/6
Soda	...	B.P., 15	"	"	...	"	1/0	1/6
Potash	...	5	"	"	...	"	1/0	1/6
Potash	...	B.P., 15	"	"	...	"	1/0	1/6
Seltzer	...	...	...	...	...	"	1/0	2/0
Lemonade	...	...	...	...	...	"	1/3	2/6
Lime Juice	...	...	...	...	...	"	1/3	
Ginger Ale	...	...	...	...	...	"	1/3	
Ginger Beer, Glass	...	...	...	...	...	"	1/3	
Lithia, B.P., 5 Grains to half-pint	...	...	...	...	...	"	1/9	
Iron and Quinine Water	...	...	...	...	...	"	1/9	
Mineral Acid	...	...	...	...	...	"	1/9	

Bottles, at per doz., 1/6. Syphons at 24/. Cases, 3 doz., 3/6; 4 doz., 4/6; 6 doz., 5/6. Syphon Cases, 2/6. Sparkling Rubine and Sparkling Limine, pints, at 3/2 per doz., bottles included. Six doz. at 3/. and 30 doz. at 2/10. Special terms for 5 gross and upwards bottled goods. Natural Mineral Water supplied at lowest prices. For further particulars apply to

H. T. BUTLER, Secretary.

JEWSBURY & BROWN'S MANCHESTER

MINERAL WATERS,

PURE SODA, SELTZER, POTASH, LITHIA, &c.,
LEMONADE,
GINGER ALE, AND QUININE TONIC.

Prepared and Bottled specially for Export, and warranted to keep well.

Manufactured with the utmost care and by improved machinery, these productions are recommended for purity and excellence of quality by many leading members of the Medical Profession, and have for many years had a preference by the public; the flavour of the Lemonade and Ginger Ale being procured from the fresh Fruit and Finest Jamaica Ginger, they may be relied upon as furnishing delicious and satisfactory beverages, either for general use or specially for invalids.

The Soda Water is absolutely free from any metallic impregnation, and being by improved machinery highly charged with Carbonic Acid Gas, and each bottle containing a definite and unvarying proportion of Pure Carbonate of Soda, J. & B. have every confidence in inviting a trial from those who have not already patronised them.

The Seltzer, Potash, and Lithia Waters are prepared with the utmost exactitude and the purest ingredients.

The New Quinine Tonic furnishes a pleasant form for the administration of a most valuable restorative, and is refreshing and agreeable.

Ginger Ale (Aromatic) of superior quality, and strongly recommended as a Non-Alcoholic and warm stimulant beverage.

N.B.—Every Bottle is protected by a distinctive Label, with Name and Trade Mark, and each Cork is branded.

Counter Bills and Analytical Reports, with Agents' Names and Addresses, supplied when requested.

A CERTIFICATE OF MERIT, for superiority of quality, was awarded to Jewsbury & Brown at the Exhibition of Sanitary Appliances, at Owens College, Manchester, on the occasion of the Meeting of the British Medical Association, August, 1877.

A CERTIFICATE OF MERIT awarded by the British Sanitary Institute of Great Britain, after a deferred PRACTICAL TRIAL AND EXAMINATION, July 4th, 1879.

J. & B. JEWSBURY & BROWN, 44 Downing Street, 3 Grosvenor Street, and 113 Market Street, MANCHESTER.

HAY'S SOLUBLE ESSENCE OF MESSINA LEMONS,

FOR THE PRODUCTION OF
THE FINEST LEMONADE.

Added in the proportion of one fluid ounce to each gallon of syrup, the soluble essence imparts the most delicious flavour of the Lemon.
—The Chemist's Journal.



The Essence mixes well with water, and has a delicate flavour. The Lemonade made therewith has a far more delicate flavour than that generally met with.—The Chemist and Druggist.

Trade Price, 8/6 per lb.; 12 lbs. and upwards, 8/.

PREPARED BY

**W. HAY, Manufacturing Chemist,
BEVERLEY ROAD, HULL.**

HAY'S GINGER CHAMPAGNE

CAN BE OBTAINED FROM THE SOLE AGENTS,

INGRAM & ROYLE,

119 QUEEN VICTORIA STREET, LONDON, E.C.,
AND BATH BRIDGE, BRISTOL.

Retail Price, in Half Champagne Bottles, 5/6 per doz.

This SPARKLING, EXHILARATING, and REFRESHING DRINK, while being far more agreeable in bouquet and flavour than the FINEST CHAMPAGNE WINE, is, at the same time, unlike it, FREE from ALCOHOL.

It is strongly recommended both for Juveniles and Adults, &c., as the most Wholesome Stimulating Beverage that has hitherto been introduced, and should be in every household during all seasons of the year.

Samaritan Free Hospital, Lower Seymour Street,
Portman Square, London, W.

Dear Sir,—I have tried your Ginger Champagne, which I find to be excellent, and I look upon it as a step in the right direction towards meeting a long-felt want. Our Senior Physician, Dr. Henry Savage, has also tried it, and is much pleased with it. We ought long ago to have had such a beverage, and I believe that a great deal of drinking would thus have been prevented. I wish your effort much success.

I am, dear Sir, yours faithfully,
GEORGE SCUDAMORE, Secretary.

An excellent and most agreeable beverage.—*The Lancet.*

Made by Mr. Hay, of Hull, with his well-known SOLUBLE ESSENCE OF JAMAICA GINGER, takes rank as a PURE, WHOLESOME, STIMULATING, and NON-ALCOHOLIC beverage.—*British Medical Journal.*

One of the most delicate and wholesome drinks in the market.—*Medical Press.*

SOLE MANUFACTURER—

W. HAY, Chemist, &c., 4 Regent's Terrace, HULL.

FOUND AT LAST! WHAT?

A Temperance Beverage brewed entirely from Malt and Hops and absolutely free from Alcohol.

In proof of this, see Dr. O. BOSTOCK HILL'S (County Analyst, &c.) report upon each label.

SALUS

Has a pleasant flavour. Is a good appetizer, the best Hops only being used. Is refreshing and stimulating, without the injurious effects of Alcohol.

Sample orders of 6 doz. Champagne Pints sent, carriage paid to any Railway Station in England, on receipt of 28s.; 10s. allowed for case and bottles when returned to the

**SALUS MANUFACTURING COMPANY,
Gladstone Road, Birmingham.**



**DRUGGISTS' WAX,
BOTTLING WAX,
LETTER WAX,
PACKING WAX.**

"BEE" BRAND
SOLD BY ALL
Wholesale Druggists
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**GEORGE WATERSTON & SONS,
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FOREIGN MINERAL WATERS.

FREDERICKSHALL (5 Cases, 6d. per Case less), 24/- Case, 30 bot.; 39/- Case, 60 1/2 bot.

APOLLINARIS WATER, 25/- Hpr., 50 bts. 39/- Hpr., 100 1/2 bts.

"Carriage paid." Hampers free 5 per cent. discount if 20 Hampers.

HUNYADI JANOS (10 Cases, 3/- and 5/- less), 20/- Case, 25 bts.; 53/- Case, 50 1/2 bts.

ELTZER " " 11/- Hpr., 35 bts. 15/- Hpr., 50 1/2 bts.

FULLNA " " 18/- Case, 20 bts. 50/- Case, 60 1/2 bts.

VICHY " " 31/- " 60 bts. 37/- " 60 1/2 bts.

CARLSBAD " " 37/- " 60 bts.

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CARLSBAD ALTS, 1/2 Bot., 20/- per doz.; 1/2 Bot., 40/- per doz.; 1 Bot., 80/- per doz.



REGISTERED AT STATIONERS' HALL.

NORWAY BLOCK ICE

FROM FINEST LAKES IN
CHRISTIANIA.

Professor Frankland's report with analysis:—"The Ice is exceedingly pure, and contains less foreign matter than any water with which I am acquainted in this country."

Original Blocks
(2 to 3 cwt. each) 2s. 0d. per cwt.
1 cwt. to 2 cwt. .. 2s. 6d. per cwt.
1/2 cwt. to 1 cwt. 1d. per lb.
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Packing free. Utmost promptitude in despatch.

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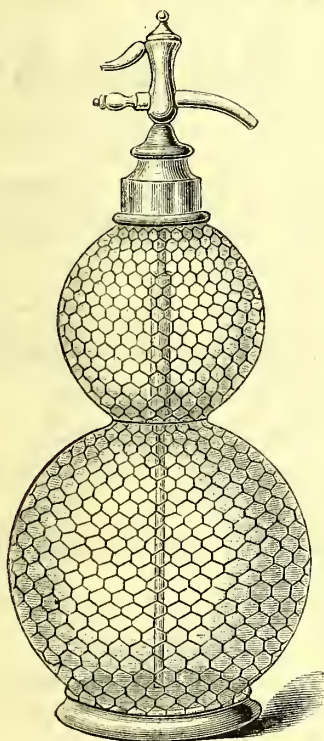
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Unequalled in Style and Finish.

CANE OR WIRE COVERED.



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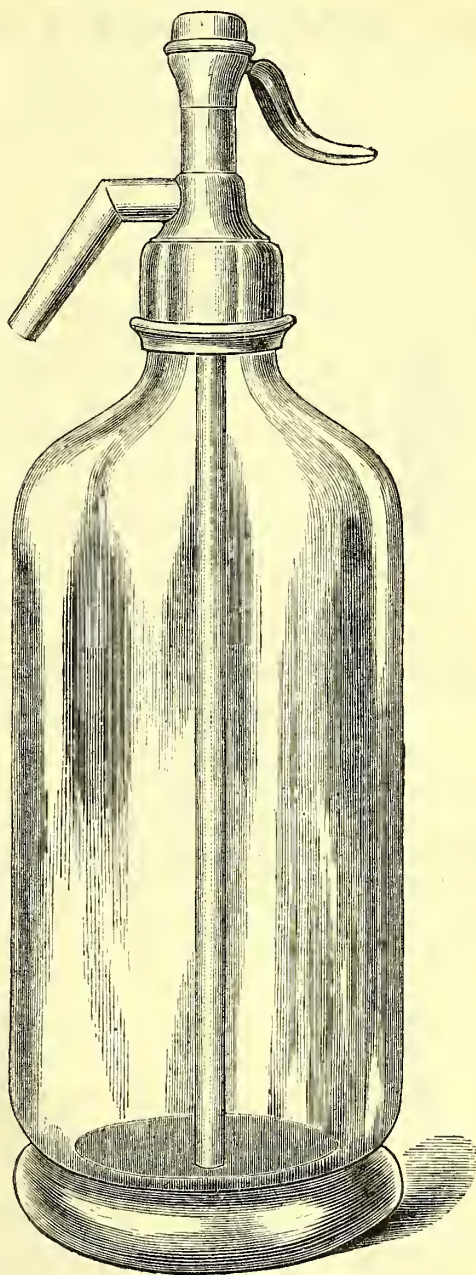
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THE IDRIS SYPHON

*Is the best in the Market, combining the elegance
of the French with the strength and superiority
of English workmanship.*



Intending purchasers should apply
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IDRIS MANUFACTURING CO.,
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Tops guaranteed to be made of Best English Tin and
free from Lead.

Hunyadi János

CAUTION.—Circumstances which have come to the knowledge of Andreas Saxlehner, Buda Pest, Sole Proprietor of the Hunyadi János Spring, compel him to warn the British Public against SPURIOUS IMITATIONS. To secure genuineness, purchasers should see that every bottle has on the LABEL the name of "THE APOLLINARIS COMPANY (LIMITED), London."

LA BOURBOULE,

AN EMINENTLY RESTORATIVE MINERAL WATER.

Contains Chloride of Soda, Bicarbonates, Arsenics (28 millig. of arseniate of soda per litre).

Dose: Half a glass to three glasses per day before or during meals.

A Regenerator for Weakly Children, and for Debility in Adults; also in Anæmia, Fatty Degeneration, Affections of the Skin and Respiratory Organs, and Intermittent Fevers. Employed as a drink and in gargles for Bronchitis and Sore Throat, and as a drink and lotion in Ringworm, Chaps, and Redness of the Skin.

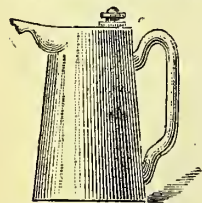
Anglican Divine service on Sundays.

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L'HOTE'S APPARATUS

(Patented S.G.D.G.)

FOR SELTZER WATER & AERATED BEVERAGES.



1/7th of actual size.

This Apparatus is made entirely in PORCELAIN. No Repairs necessary. No Explosions possible. The cheapest of Table Apparatus.

PRICES:—

Two Bottle Apparatus .. 5fr. 75c. (4/7½)

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Powders for the Two-bottle Apparatus (Ten charges) 1fr. 20c (1/)

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Discount to Pharmacists and Druggists.

F. PAQUET, Manufacturer,
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By Special Appointment to

H.R.H. the Duke of Connaught and the Royal Family.



BOURNE WATERS.

THE PUREST IN ENGLAND.

R. M. MILLS & CO.,

BOURNE, LINCOLNSHIRE,

MANUFACTURERS OF

SODA, POTASH, LITHIA, AND SELTZER WATERS,
LEMONADE, AND AROMATIC GINGER ALE.

4-dozen and 6-dozen Cases Carriage Paid.

Prices and Pamphlet on application. Agents appointed.

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ENGINEERS, PATENTEES IN FRANCE AND ABROAD OF

IMPROVED MACHINERY FOR THE MANUFACTURE OF SODA-WATER.

GOLD MEDAL, AMSTERDAM, 1883.

APPARATUS GAZOSELTZ CONTINUAL,

Without Gasometer, with automatic distribution of the acid. The only ones which work under a regular pressure as long as the operation lasts.



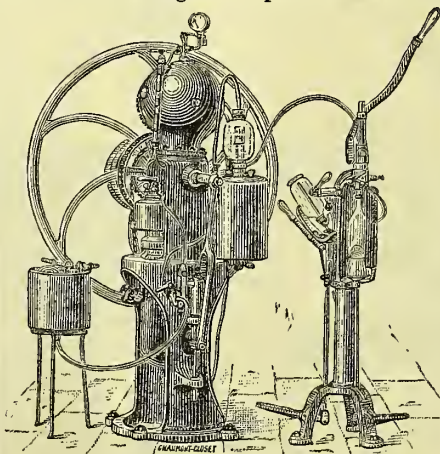
Syphons,
Short lever.

PRICE—

20/6 per dozen.

All the fittings manufactured by ourselves, and of the best workmanship.

PURE ENGLISH TIN, FIRST QUALITY.



Complete Plant, Model No. 1,

Showing the Generator with Combination filler (for bottles and syphons), Price £48. Production 1,200 syphons or bottles daily.
PROSPECTUS FREE ON APPLICATION.

New system, based on the principle of Mariotte's bottle.

Automatic and continuous production of the gas, permitting the indefinite preservation of the gas purifiers

No gasometer required.

No manipulation of the acid tap required.

Safety. All risk of explosions avoided.

HONOURABLE MENTION,
International Food Exhibition, Agricultural Hall, London, October, 1880.

HAY'S SOLUBLE ESSENCE OF JAMAICA GINGER

(Guaranteed Pure and Free from Capsicum).

Trade Price, 5s. per lb.; 12 lbs. and upwards, 4s. 6d.

Highly adapted for the manufacture of *Transparent Aërated Waters*, and for all *Dietetic, Medicinal, and Pharmaceutical* purposes
MEDICAL AND OTHER OPINIONS ON HAY'S GINGER CHAMPAGNE.

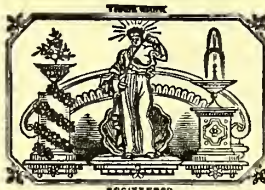
Made from Hay's Ginger Champagne Essence.

"The FINE AROMA OF GINGER which Mr. Hay has caught with remarkable success is an excellent SUBSTITUTE FOR ALCOHOL, as it gives what old port wine drinkers used to call 'BODY,' and to many people, besides professed teetotallers, an occasional change at least from the ROYAL FRENCH BEVERAGE to its less costly, but equally sparkling and MORE REFRESHING ENGLISH RIVAL, is a welcome treat."
The Chemist and Druggist.

"An excellent and most agreeable beverage."

The Lancet.

"Made by Mr. HAY, of Hull, with his well-known Soluble Essence of Jamaica Ginger, takes rank as a pure, wholesome, stimulating, and non-alcoholic beverage."—*British Medical Journal.*



Medical and other Opinions on the
Ginger Beer made from HAY'S Soluble Essence.

"An excellent effervescent drink."—*The Lancet.*

"Preferable to some wines we have tasted under the name of champagne."—*Medical Press.*

"Has the purest Jamaica Ginger aroma, and ought to attain great popularity."—*The Chemist and Druggist.*

The aroma is fine, the flavour delicate, and the pungency admirable, and we should be glad to see the Essence introduced into this country.

Carbonated Drinks. New York, U.S.A.

HAY'S Ginger Ale.

"It pours out with as fine a 'head' as any glass of ale, and possesses all the fine aromatic flavour of the pure ginger. It is a beverage which is sure to win favour wherever introduced."—*The Chemist and Druggist.*

THE COMPOUND FORTIFIED ESSENCE

Specially adapted for the Manufacture of the

FINEST GINGER ALE.

This Essence, which is an addition of Vanilla, Lemon, and other flavours to the above, is strongly recommended for the manufacture of the finest Ginger Beer and Ginger Ale. It imparts, with the exquisite Ginger Aroma of the above-mentioned Essence, a peculiarly fine fruity flavour combined with the fullest amount of fragrance and pungency.

Trade Price, 5s. 6d. per lb.; 12 lbs. and upwards, 5s.

HAY'S GINGER CHAMPAGNE ESSENCE

FOR THE MANUFACTURE OF GINGER CHAMPAGNE.

This Essence is a combination of the Finest Flavours, and imparts with the Ginger, a most exquisite Aroma.

Trade Price, 8s. per lb.; 12 lbs. and upwards, 7s. 6d.

HAY'S GINGER ALE ESSENCE, HIGHLY CONCENTRATED.

This Essence is a complete Bouquet of the Finest Ginger, Lemon, and other flavours in a highly concentrated state. Ginger Beer and Ginger Ale made with this Essence will possess an amount of Aroma, Flavour, and Quality that have hitherto been without precedent, and that will be sure to command a large sale.

THE COST IN MANUFACTURE IS ABOUT ONE FARTHING PER DOZEN BOTTLES.

Trade Price, 9s. per lb.; 12 lbs. and upwards, 8s. 6d.

HAY'S GINGER ALE EXTRACT

SUPPLIES PUNGENCY, AROMA, COLOURING, AND FLAVOURING.

This Extract is strongly recommended for the manufacture of Ginger Ale, to which it imparts an unusually Fine Flavour and Great Brilliancy, at a cost of a little under 1d. per dozen bottles.

Trade Price, 4s. 6d. per lb.; 12 lbs. and upwards, 4s.

PREPARED BY

W. HAY, Manufacturing Chemist, BEVERLEY ROAD, HULL.

Agents—Messrs. HEARON, SQUIRE & FRANCIS, Wholesale Druggists,
5 COLEMAN STREET, LONDON, E.C.

W. HAY CAUTIONS THE TRADE against the use of those spurious so-called SOLUBLE ESSENCES which, besides having NO GINGER AROMA, are FLAVOURLESS, RANK, and DISAGREEABLE, and are little more than TINCTURES OF CAPSICUM.

GEORGE OATES & CO., MESSINA, SICILY
MANUFACTURERS OF
ESSENTIAL OILS.

PRIZE MEDAL MELBOURNE, 1880

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MANUFACTURERS, ESTABLISHED ON THE VERY GROWTH PLACE, FOR THE FINEST

ESSENTIAL OILS*Of Lemon, Bergamot, Sweet and Bitter Orange. Recently Awarded at the Exhibitions of***CALTANISSETTA, 1879**—A Gold Medal and 200 Liras for Invention of Machinery to the use of their Manufactory, and Silver Medal for Excellence of Produce.**MILAN, 1881**—A Bronze Medal for Excellence of Produce.**MELBOURNE, 1881**—A First Order of Merit for Excellence of Produce.**MESSINA, 1882**—A Gold Medal and 130 Liras for an ample set of Machines to the use of their Manufactory, and a Bronze Medal for Excellence of Produce.*A first trial order is quite sufficient to remain convinced of the Excellence of our Essences.*

Samples and all particulars may be had from our Wholesale Agents—

SAM'L. LAMBERT & CO., 132 Fenchurch Street, LONDON.**CLAUDE RAYNAUD & CO.,**

MANUFACTURERS AND DISTILLERS OF

POMADE, EXTRACTS, OIL, ROSE AND ORANGE FLOWER WATER, ETC.MESSRS. CLAUDE RAYNAUD & CO. (Grasse) beg to inform purchasers of the following prices for their new Rose Water and Orange Flower Water:—**ROSE WATER.**

Carboys of 24 litres, triple	...	...	32 fcs or £1 5 7
" 24 " quadruple	...	...	36 " 1 8 9
Coppers of 24 " triple	...	...	35 " 1 8 0
" 24 " quadruple	...	...	39 " 1 11 2

ORANGE FLOWER WATER.

Carboys of 24 litres, triple	...	...	34 fcs. or £1 7 2
" 24 " quadruple	...	...	38 " 1 10 5
Coppers of 24 " triple	...	...	37 " 1 9 8
" 24 " quadruple	...	...	44 " 1 12 9

Also special extra quality Extracts in 2½ oz. bottles, for export and home consumption, in 6 dozen cases, assorted—20/ per doz. in bond; 23/ per doz. duty paid. New Pomades and Essential Oils now ready.

OIL LAVENDER.—MONT BLANC is now in perfection, and Messrs. C. R. & Co. solicit a trial of this which they highly recommend.

Sole Agent—G. V. DE LUCA, 6 & 7 Long Lane, E.C.

Depot—NEWBERRY & SONS, 1 King Edward St., E.C.

CHARRAS & CO.,
NYONS (DROME), FRANCE.

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SPECIAL DISTILLATION OF

ESSENTIAL OILS,

LAVENDER, ROSEMARY, FENNEL, ORIGANUM, SPIKE, RED AND WHITE THYME.

SAMPLES SENT ON APPLICATION.

W. J. BUSH & CO.,

Distillers and Importers of

ESSENTIAL OILS AND FRUIT ESSENCES,

SOLUBLE ESSENCES FOR AERATED WATER

AND CORDIAL MANUFACTURERS,

Extra Super Lemon, which is double the strength of ordinary commercial qualities.

W. J. B. & CO. caution the Trade against the so-called soluble Essences now so frequently offered for sale, which are nothing more than mere tinctures, and, although offered at lower prices, cost five or six times as much in use, whilst imparting a strong medicated flavour.

The importance of our invention of Soluble Essences is clearly shown by the numerous imitators and copyers that have sprung up. and we must inform the TRADE that ours are the only GENUINE ORIGINAL SOLUBLE ESSENCES.

FRENCH CREAM GUM EXTRACT,

PROTECTED BY ROYAL LETTERS PATENT,

For producing a head of Creamy Richness upon all kinds of Syrups, Aerated Waters, Beers, Ales, Cider, Champagne, &c., 2s. 6d. per pound.

W. J. BUSH & CO. regret having to Caution the Trade against spurious imitations of this article, most of which being mere rubbish.

W. J. BUSH & CO.'S ENGLISH DRAWN ESSENTIAL OILS.

OL. AMYGD. ESSENT. ANG.

„ AMYGD. „ (SINE
ACID. PRUSSIC.)

„ ANETHI ANG.

„ CARUI ANG.

„ CARYOPH. ANG.

„ CINNAM. VER. ANG.

OL. CUBEBÆ ANG.

„ COPAIBÆ ANG.

„ MYRISTICÆ ANG.

„ MENTH. PIP. MITCHAM
RECT.

„ SANTAL FLAV. ANG.

OL. LIMONIS (W. J. B. & CO.'S SPECIALITY).

20-23 ARTILLERY LANE, BISHOPSGATE, LONDON, E.

CERTIFICATE OF MERIT, LONDON, 1881.

W. H. LLOYD & CO.,

PATENTEES & MANUFACTURERS OF EVERY DESCRIPTION OF

BRONCHITIS KETTLES, FOOD WARMERS, NIGHT LAMPS & SPIRIT LAMPS.

HIGH STREET, HARBORNE, BIRMINGHAM.

Whole ale Agents: S. Maw, Son, & Thompson, London.

ROBINSON'S ORANGE WINE

(VIN. AURANTII, B.P.)

*Specially prepared for Quinine Wine, does not deposit, will keep good in any Climate, and well adapted for Export Trade. Supplied in Casks containing 9, 18, 30, 60, or 120 Gallons. Terms on application.***THE UNIVERSAL CORN AND WART PENCIL.***1 doz. mounted on a handsome Illustrated Show-Card, Retail, 6d. each; Wholesale, 3s. 6d. per doz. It is especially adapted for Export Trade, and may be safely sent to the hottest climates, as each glass tube is hermetically sealed and enclosed in a cardboard case, N.B.—The above is exempt from Stamp Duty by permission of the Board of Inland Revenue.***CONCENTRATED WATERS.**—One Ounce of these Waters added to Forty Ounces of Distilled Water forms a clear Medicated Water (without filtering), similar in every respect to those prepared according to the directions of the British Pharmacopœia, and free from all Chemical impurity. They are prepared to supply a want long felt by Chemists and Medical Men, and by their use a fresh supply of any of the Medicinal Waters may be obtained at a moment's notice. They are not affected by age in any climate. N.B.—Used in the proportion of one part to thirty-two of water they represent the Medicinal Waters of the *United States Pharmacopœia*.

	Per lb.		Per lb.		Per lb.		Per lb.
Aqua Anethi, Concent.	4/0	Aqua Cinnam. Ver. Concent.	6/0	Aqua Fœniculi, Concent.	4/0	Aqua Pimentæ, Concent.	4/0
" Anisi,	4/0	" Cassia,	4/0	" Menth Pip.	4/0	" Rosæ	8/6
" Camphoræ "	4/0	" Flor. Aurant.	8/6	" Ang. Con.	6/0	" Rosæ Virgin "	10/8
" Carui "	4/0	" Flor. Sambuci "	8/6	" Virid. "	4/0		

The above are put up in Bottles of ½ lb. or 1 lb. and upwards, each of which has the Inventor's Protection Label over cork.

Wholesale Agents—Hearon & Co., Maw, Son, & Thompson, Lynch & Co., London; Evans, Sons & Co., Liverpool; Woolley, Manchester; Bewley & Draper, Hunt & Co., Dublin; Glasgow Apothecaries' Co., Hatrick & Co., Glasgow; Raimes & Co., Duncan Flockhart & Co., J. Mackay & Co., T. & H. Smith & Co., Edinburgh; Foggett, Thirsk: Goodall & Co., Leeds; J. Richardson & Co., Leicester; Slinger & Son, York; McKesson & Robbins, New York. Special terms for large quantities may be had from

B. ROBINSON. Distiller and Brewer of British Wines. Church St.. Pendleton. Manchester.**BETTS & CO., LIMITED**

(ESTABLISHED IN 1840),

SOLE MAKERS IN GREAT BRITAIN OF

METALLIC CAPSULES,

AND PATENTEES OF THE

COLOURED SIDE MARK, LABEL, AND OTHER SPECIALITY CAPSULES

(For the Prevention of Fraud and Refilling of Old Labelled Bottles), as supplied to Bass & Co., and the leading Brewers and Bottlers of Wines and Spirits throughout Europe.

PLAIN ORDINARY CAPSULES,

For Small Phials, 2s. 6d. and upwards per 1,000, according to size, style, design, and quantity.

SPECIAL CONTRACTS FOR CONTINUOUS DEALING.

Manufacturers of Pure English-made Bottling and Package Tinfoil, from 1s. per lb. and upwards; Mixed Foil (Foreign Quality), from 6d. per lb. (according to gauge); Patent Barrel Packages and Snuff Canisters, &c.**MANUFACTORIES:**—LONDON: Chief Office and Factories, Wharf Road, City Road, E.C.; and Holloway and Patavia Mills, Holloway, N.W.—BIRMINGHAM: Moor Green Fields.—PARIS: Office, 4 Rue Mogador, Chaussée D'Antin.—BORDEAUX: Office, 3 Quai de Chartrons; Factory, Monrépos, Floirac.**PATENTEES OF HYDRAULIC & MECHANICAL PRESSURE CAPSULING MACHINES,**

ESPECIALLY ADAPTED FOR CHEMISTS' COUNTERS.

Largely used by the Trade, and efficiency guaranteed for all sizes of Bottles, at Royalties from 5s. to £2 2s. per annum.

INTERNATIONAL HEALTH EXHIBITION.

MAIGNEN'S PATENT

"FILTRE RAPIDE."

GOLD MEDAL

FOR

WATER "FILTRE RAPIDE."

SILVER MEDAL

(HIGHEST AWARD)

FOR

Wine, Spirit, Beer, and Syrup

"FILTRE RAPIDE."

GOLD MEDAL

FOR

ARMY "FILTRE RAPIDE."

SILVER MEDAL

(HIGHEST AWARD)

FOR

WATER-SOFTENING Process for Boilers

(Saving Life in Workshop).

BRONZE MEDAL (HIGHEST AWARD) FOR

MAIGNEN'S Patent "ANTI-CALCAIRE" Powder

To SOFTEN WATER for WASHING.

Full particulars in Pamphlet, "Water, Preventable Disease, and Filtration," by P. A. MAIGNEN, 32 St. Mary-at-Hill, Eastcheap, London.

DOULTON & CO., LAMBETH, LONDON, S.E.

DOULTON'S MANGANOUS CARBON FILTERS (Dr. Bernays's Patent).

The Combination prepared under this Patent gives to the Charcoal its highest value as a

FILTERING MEDIUM.

The Filter is made in four movable parts—the body, the lining, the Manganous Carbon block, and the cover. By this means every portion of the filter may be

KEPT PERFECTLY CLEAN,

and the Manganous Carbon block may be changed as often as necessary WITHOUT PARTING WITH THE FILTER.

DOULTON'S IMPROVED GRANULAR CHARCOAL FILTER.

In addition to the bed of Granular prepared Charcoal, these Filters are fitted with a movable block of MANGANOUS CARBON in place of sponge. This arrangement, whilst acting as a screen for suspended matters, gives a double action to the power of the FILTERING MEDIA.

Any Description of Filter Refitted at Moderate Charge.



DOULTON & CO. also manufacture Boudoir or Table Filters, Pocket and Syphon Filters for Tourists' use, Manganous Carbon Self-Acting Cistern Filters, Refrigerator Filters, High Pressure Filters for manufacturing purposes, &c. May be had of all Dealers.—DOULTON & CO., Lambeth, London, S.E.

M. A. CRAVEN & SON,

WHOLESALE AND EXPORT CONFECTIONERS,

MAKERS OF

Medicated Lozenges, Refined Liquorice, Jujubes, and every description of Confectionery,

IMPORTERS AND MANUFACTURERS OF LEMON, ORANGE, AND CITRON PEELS.

EBOR CONFECTIONERY WORKS,

YORK.

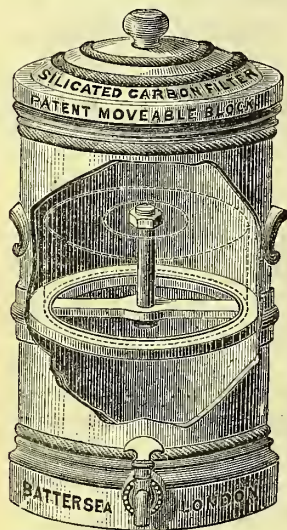
Lozenges of all descriptions made from Customers' private formulæ (or ingredients), and stamped with any name or device.

SPECIALITIES—Cough, Peppermint, Rose, Musk, Bouquet, Cachou, and all kinds of Medicated Lozenges.
ESTABLISHED 1843. PRICE LIST ON APPLICATION.

SILICATED CARBON

PATENT MOVABLE-BLOCK FILTERS.

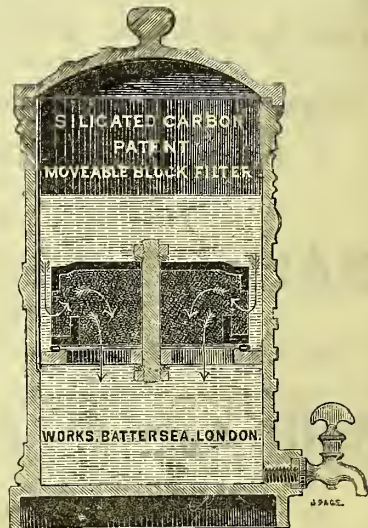
These Filters are constructed on Scientific principles, and can be renewed or repaired by the user without returning to the maker. They possess all the advantages of those with fixed filtering mediums, while the simple removal of the Silicated Carbon Block leaves the *whole* of the interior of the Filter open for inspection and cleansing. The working parts are stoneware, and corrosion is impossible.



(Elevation with Block removed.)

NO LOOSE PAN OR INNER VESSEL
TO CAUSE BREAKAGE.

The block being non-porous on the top and edges, an *upward* direction is given to the water, which thus passes through a greater thickness of the Silicated Carbon, as shown by the arrows in drawing.



(Section.)

The Silicated Carbon Block can be instantly removed, leaving the whole of the interior of the Filter open for inspection and cleansing.

To Cleanse the block, plunge it into boiling water, and well scrub it with a hard brush.

Extra blocks can be supplied with each Filter. All parts being interchangeable can be replaced in case of accidents.

This Patent can be adapted to all patterns manufactured by the SILICATED CARBON FILTER CO. *without increased charge.* In ordering please state "*with patent movable block.*"

Domestic Filters (as above), in Cream-coloured Stoneware, with Plated Taps and Patent Movable Blocks:—

No. 27. O. $\frac{1}{2}$ gal. 10/6 each. D. 6 gals. 42/- each.

A. 1 „ 14/6 „ E. 8 „ 52/- „

B. 2 „ 21/- „ F. 12 „ 70/- „

C. 4 „ 32/- „

Dining Room Filters, in Marbled China, with Plated Taps and Patent Movable Blocks:—

No. 22. A. 2 gals. 35/- each.

B. 5 „ 80/- „

Refrigerative Terra Cotta do., do.:—

No. 25. 2 gals. 31/6 each.

All makes of Filters can be refitted on this principle, 1 gal. 8/6, 2 gals. 10/-, 4 gals. 12/- each. Larger sizes in proportion.

SILICATED CARBON FILTER COMPANY.

WORKS: BATTERSEA, LONDON.

SILICATED CARBON FILTERS.

SYPHON FILTERS FOR TRAVELLERS.

By means of these Filters pure and perfectly wholesome water may be drunk from any pond or stream by simply immersing the Filter therein and drawing the water through the tube by suction.

Each of these portable Filters may be



No. 20.

used as a Syphon by placing it in a vessel of water, then drawing the water by the mouth, and allowing the flexible tube to hang over the side below the Filter. When once set in operation their action is continuous.

- A.—Pocket Filter, 2½ inches diameter, in porcelain, with glass s. d.
mouthpiece, in decorated metal-box 2 6
- B.—Ditto, 3½ inches diameter, in best stoneware 5 0
- C.—Emigrant's, 5 inches diameter, with silver-plated tap .. 12 0
- G.—Pocket Filter, for carrying over shoulder, as supplied to the
Forces in Abyssinia and Zululand, and to the Ashantee
and Egyptian Expeditions 3 6
- H.—Ditto, nickel-plated, designed by Major Fraser, R.E., and specially
recommended by the Horse Guards for Officers' kits .. 5 0

TABLE FILTER,

Made of stout glass, in 1, 2, and 3 pint sizes, the filtering medium being securely fitted into the bell-funnel, so that it is not liable to become loose, or to allow unfiltered water



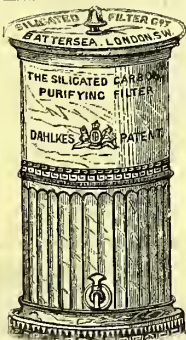
NO. 24.

to pass. This Filter is peculiarly suited for the Bedroom and for Table use, affording a ready and simple means of obtaining at any time freshly-purified water.

PRICES.

No. O, 2s. 6d.; A, 4s.; B, 5s. 6d.

Engraved Vine Pattern—O, 3s. 6d.; A, 5s. 6d.; B, 7s. 6d.



DINING-ROOM FILTER,

No. 22.

MADE IN MARBLED CHINA.

Size A holds about two gallons; size B, five gallons.

PRICES.

- A 35s.
B 80s.
A, with Ice Compartment... .. 42s.
(New Patent.)
B, with Ice Compartment... .. 100s.
(New Patent.)

The large size (B) is specially adapted for Hotels, Refreshment Rooms, Luncheon Bars, &c.

REFRIGERATOR FILTER, NO. 25.

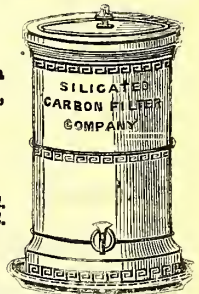
Made in Porous Terra-Cotta Ware,

Which acts with remarkable power as a cooler, and renders this Filter invaluable, especially in Tropical Climates,

AFFORDING A
COOL DRAUGHT OF PURE WATER.

- Price, with Silver-plated Tap 31s. 6d.
Ditto, ditto, with Ice Compartment.. .. 42s. 0d.
Capacity Two Gallons.

Specially adapted for Tropical Climates.



MAIN SUPPLY FILTER, NO. 40,

FOR

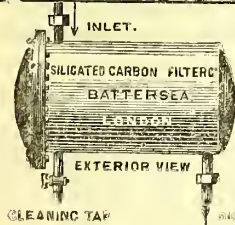
MINERAL WATER MANUFACTORIES,



As used by Messrs. Schweppe, London, Liverpool, Glasgow, &c.; Messrs. Cantrell & Cochrane, Belfast, and most of the large makers.

PRICES.

- For 3-in. Pipes ... £8 6s.
,, 1-in. ,, ... £9 9s.



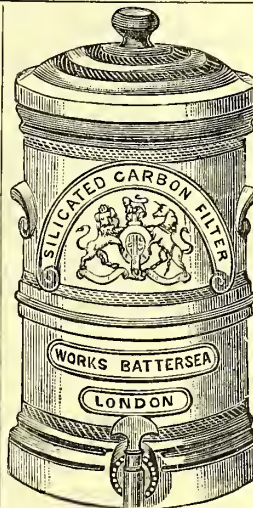
DOMESTIC FILTER,

No. 27.

Made in cream-coloured Stoneware, fitted with the Silicated Carbon Media, complete with Cover and Silver-plated Tap.

PRICES.

- No. O, capacity ½ gallon..... 10s. 6d.
No. A, " 1 " 14s. 6d.
No. B, " 2 " 21s. 0d.
No. C, " 4 " 32s. 0d.
No. D, " 6 " 42s. 0d.
No. E, " 8 " 52s. 0d.
No. F, " 12 " 70s. 0d.



FOR FULL PARTICULARS WRITE TO THE

SILICATED CARBON FILTER COMPANY,

CHURCH ROAD, BATTERSEA, LONDON, S.W.

LEUBE-ROSENTHAL'S IMPROVED MEAT SOLUTION.

Prepared by R. STUETZ, Chemist, Successor to Dr. MIRUS, Jena, Germany.

This carefully prepared Meat Solution contains the real stimulating and nourishing constituents of the best quality of beef, freed of fat and sinews. It is exceedingly appetising, and easily digested even by the weakest stomach. It can be taken either entire or diluted with water. It is totally devoid of that obnoxious, nauseous taste so common to most of the meat preparations. It will keep good in hermetically closed tins for any length of time.

Retail Price per Tin, containing $\frac{1}{2}$ lb., 2/; Wholesale, per dozen, 17/ net.

Wholesale Depôt: H. POTHS & CO, 4 Sugar Loaf Court, Leadenhall Street, LONDON, E.C.

KREOCHYLE ^{BARFF} ^{AND} ^{WIRE.} LIQUID MEAT.

FOOD AND STIMULANT FOR INVALIDS AND INFANTS.

To be obtained of all Wholesale Chemists, and

Sole Manufacturers and Patentees: THE KREOCHYLE COMPANY, BIRKBECK ROAD, LEYTONSTONE, E.

Prices—Retail, 5s. per pint; 2s. 9d. per half pint; 1s. 6d. per quarter pint.

HARVEY'S SAUCE

For FISH,
STEAKS,
GAME,
&c.

CAUTION.

Each Bottle
of this celebrated
Sauce, prepared from
the Original Recipe, bears
the well-known Label, signed—

Elizabeth Lazenby

This Label is protected by PERPETUAL INJUNCTION in Chancery of the 9th July, 1858, and without it none can be GENUINE.

Prepared only by E. LAZENBY & SON, LONDON.

And sold Retail by Grocers, Outmen, Italian Warehousemen, &c., throughout the Kingdom.

SPECIAL NOTICE & CAUTION.

BRAND & CO.

The Original Manufacturers of Essence of Beef (green label under wrapper), and other Specialities for Invalids, have

NOT REMOVED

From their SOLE ADDRESS, No. 11
LITTLE STANHOPE STREET, MAY-
FAIR, W, and caution the trade to

BEWARE OF IMITATIONS.

Is most useful and economical to Hotel Keepers, Clubs, Restaurants, and the General Public.

It is indispensable with all kinds of made dishes, Soups, Gravies, Cold Meats, Salads, Cheese, &c., and its application to a Chop or Steak makes the repast a perfect luxury. With Fish it finds no rival. It is a perfect antiseptic and dietetic, and will be found beneficial to those suffering from want of appetite or weak digestion.

The Clarence Sauce differs from others in one grand feature, no animal or deleterious matter being used in its production. Its ingredients are composed of the finest vegetable productions selected from all parts of the world.

The celebrated Chef Francatelli averred that he never sent a made dish to table without this Sauce.

SOLE PROPRIETORS:

CLARENCE & CO.,
10 Dean Street, Holborn, LONDON, ENGLAND.

The Sauce is made in two strengths, "HOT" and "MILD."

Price 1s. per Small Bottle and 2s. per Large Bottle.

WHOLESALE TERMS AND SAMPLES ON APPLICATION. SPECIAL RATES TO SHIPPERS.

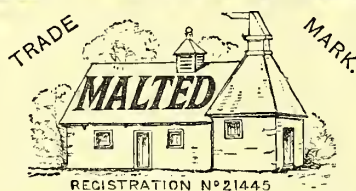
Allen & Hanburys'

MALTED
FARINACEOUS

Food

FOR INFANTS
AND INVALIDS.

A Prepared Food
ready for use



Without either
Boiling or Straining.

THE PATENT MALTED FARINACEOUS FOOD, prepared by ALLEN & HANBURY'S, is the result of a practical application of the advice of LIEBIG, and the benefits accruing from its use verify in a remarkable manner his predictions of the value and efficacy of such a Food. It is a *partially* pre-digested food, having as a basis a carefully cooked wheaten flour, specially selected on account of the large amount of gluten contained in it. To this are added the active and nutritive constituents of pure malt *in a soluble form*. This food thus combines all the advantages of Malt foods hitherto introduced, and contains all that is *valuable* in Malt, whilst all that is irritating and indigestible is rejected. It, moreover, is not so entirely pre-digested as to leave nothing for the infant's stomach to perform, yet it is readily assimilated by the most feeble, the starch granules being thoroughly broken in the process of cooking, and rendered partially soluble by their subsequent admixture with the soluble portions of the Malt. Although a much more costly food to produce than that made by the more clumsy expedient of merely adding ground malt to baked flour, it is supplied to the public at prices, to say the least, not higher than those charged for such foods, and preference is readily given to it wherever a fair trial has been made.

The LANCET writes:—

"An improved form of Liebig's well-known food. It is excellent in quality and flavour, is perfectly free from grit, can be made up in a few minutes, and requires no straining."

The BRITISH MEDICAL JOURNAL writes:—

"Very effective, digestible, nutritious, and palatable."

The LONDON MEDICAL RECORD writes:

"Allen & Hanburys' 'Malted Farinaceous Food' differs from other forms of Liebig's Food, in that the malt is present in a soluble, concentrated, and most active form, rendering the food not only most nutritious, but self-digesting."

NOTE.—ALLEN & HANBURY'S beg leave to inform the trade that they now issue for sale a 6d. tin of the Malted Farinaceous Food.

Sold only in Tins (with the above Trade Mark), at 6d., 1s., 2s., 3s., and 10s. each, 4s. 10d., 9s. 6d., 19s., 46s., and 90s. per doz., subject to usual discount.

MANUFACTURED ONLY BY

ALLEN & HANBURY'S,

PLOUGH COURT, LOMBARD STREET, LONDON.

Dr. TRESTRAIL writes:—

"GENTLEMEN,—I have much pleasure in being able to report most favourably upon your 'Malted Food,' as my child, after being at death's door for weeks, from exhaustion, consequent upon severe diarrhoea, and *inability to retain any form of 'Infants' Food,' or Milk*, began to improve immediately he took your malted preparation, and I have never seen an infant increase in weight so rapidly as he has since done.

"I am, Gentlemen, yours faithfully,

"H. ERNEST TRESTRAIL, F.R.C.S., M.R.C.P."

Messrs. ALLEN & HANBURY'S.

Mrs. HILTON writes:—

"THE CRÈCHE, STEPNEY CAUSEWAY, E.
"In the case of delicate children, it has been found highly beneficial and nutritive."

CONROY'S MALT COFFEE.

GOLD MEDAL AWARDED AT CALCUTTA EXHIBITION, MARCH, 1884.



In cases of 56 lbs. each, put up in 1-lb., 1-lb., and 1-lb. tins. Each Tin is protected by an Excise Stamp under the Regulations of the new Inland Revenue Bill of August 3, 1882.

PREPARED ONLY AT THE

MALT COFFEE WORKS, 34 FLEET STREET, LIVERPOOL.

SOLE PROPRIETORS—

EVANS, SONS & CO., LIVERPOOL.

LONDON:

CANADA:

EVANS, LESCHER & WEBB. EVANS, SONS & MASON (Limited), Montreal & Toronto.

**KANGRA VALLEY
Indian Tea Growers' Association,
7 NEW COVENTRY STREET,
LEICESTER SQUARE, W.**

THE distinctive feature of the Business of this Association of Planters is, that the Tea is delivered to consumers in the original One lb. tin-foil lined parcels in which it is packed on the Plantations.

Chemist and Druggist.—“A new agency for tea is offered to chemists and druggists by the ‘Kangra Valley Indian Tea Growers’ Association,’ and the fact that the well-known firm of Barclay & Sons are assisting this association in introducing their teas to the public through chemists is a guarantee that the business is of a more serious character than some other of the packet-tea agencies have proved. The Kangra tea plantations lie on the slopes of the North-West Himalayas, and this association appear to take great care in the selection of their leaves, and certainly offer a tea of fine quality. Their teas are packed in pound packets at the plantations, and in that form are offered for sale here in three different quantities.”

These Teas, retailing respectively at 4s., 3s., and 2s. 6d., can be purchased in any quantity, either direct from the Store, 7 New Coventry Street, or from Messrs. Barclay & Sons, 55 Farringdon Street, Agents to the Association.

Special Terms granted to all Chemists and Druggists, to whom the Teas, on account of their absolute purity are particularly recommended.

CHEMISTS' TEA AGENCY.

WALKER & DALRYMPLE'S

BROKEN-LEAF TEA, 1s. 8d. per lb.
A MONEY SAVING TEA. ABSOLUTELY PURE.
The small leaf from some of the finest India and China Teas. Produces a Tea in the cup, stronger, richer, and cheaper than most whole-leaf Teas. Agents appointed, where unrepresented, throughout the United Kingdom.

WALKER & DALRYMPLE'S

INTERMEDIATE TEA, 2s. per lb.
BEST at the PRICE EVER SOLD. Great strength and a most useful Tea where there is a large consumption. Recommended to all who wish to SAVE in their Tea. Agents appointed, where unrepresented, throughout the United Kingdom.

WALKER & DALRYMPLE'S TEAS.—

AGENTS APPOINTED, where unrepresented, throughout the United Kingdom.

Prospectus and Samples Free on Application.
Warehouses, 154, 155, 159 and 160 WHITECHAPEL ROAD, and
BRADY STREET, LONDON.

P.O.O. payable at head office. Bankers: the National Provincial Bank and London.

CLARK'S COFFEE EXTRACT.

The Best and Cheapest. No Waste, no Chicory. Saving time and money.

MADE IN AN INSTANT.

CLARK'S COFFEE AND CHICORY EXTRACT.

A marvel of quality and cheapness. No waste. Made in an instant.

CLARK'S EXTRACTS are in bottles to retail at 6d., 1s., and 2s., and should be sold by all Chemists, &c., throughout the world.

Clark's Extracts are made on a new and scientific principle, whereby the aroma of fresh coffee is retained unimpaired. They will keep in any climate, warm or cold, are very portable and highly concentrated, one teaspoonful of Extract making a cup of good coffee. Clark's Extracts are acknowledged by eminent and practicable judges the best in the market.

Wholesale of the usual Houses and of the Manufacturers,

E. CLARK & CO.,

OPTIMUS COFFEE WORKS, QUEEN'S ROAD, BATTERSEA, LONDON, S.W.

FRY'S MALTED COCOA

(PATENTED).

*A Combination of FRY'S Pure COCOA EXTRACT with***ALLEN & HANBURYS' CONCENTRATED EXTRACT OF MALT****J. S. FRY & SONS, BRISTOL AND LONDON.**

First Class Medal, New Zealand, 1882; First Prize Medal, New Zealand, 1883; Cork, 1884.

PHILLIPS & SONS' DANDELION COFFEE.

Castle Square, SWANSEA; 34 Eastcheap, LONDON.

Note London Address, having no connection with a Retail Firm of same name. Established 1760.

SCOTT'S MIDLOTHIAN OAT FLOUR

IS UNEQUALLED AS THE MOST WHOLESOME AND NUTRITIOUS FOOD FOR INFANTS AND INVALIDS.

SCOTT'S MIDLOTHIAN OAT FLOUR, which is made entirely from the finest quality of Midlothian Oats, is so purified from the Fibrous Integument, that it is concentrated in it 80 per cent. more flesh and bone forming properties than the finest Oat Meal, which is acknowledged to be the most nutritious of all Cereals. Unlike many preparations sold for Infants' Food, which contain a mixture of Cereals that would require different degrees of boiling to become properly assimilated, SCOTT'S MIDLOTHIAN OAT FLOUR is easily prepared, most satisfying and invaluable in promoting a healthy regularity of system when given to infants, as it can be used through an ordinary Feeding Bottle by Infants of Two weeks old. For Invalids and Adults, SCOTT'S MIDLOTHIAN OAT FLOUR is unequalled as a satisfying, nourishing, and easily digested food. Highly Recommended and used by Eminent Physicians. Used in the leading Hydropathic Establishments. Sold by GROCERS and CHEMISTS in Tins of various sizes.

Sole Makers—A. & R. SCOTT, MILLERS, GLASGOW.

ORANGE-QUININE TONIC-WINE.

As originally introduced by us, containing 1 grain of quinine to the ounce.

To meet the requirements of the trade, we have reduced the prices as below. The size of the bottles and the quality are as hitherto supplied:—

In bottles 6 to gallon, to retail at 2s. each, at 19s. per doz. In small bottles, to retail at 1s each, at 9s. per doz.

Less 5 per cent. discount. Carriage paid to any part of England on quantities of 3 dozen large or 6 dozen small bottles.

HIRST, BROOKE & HIRST, LEEDS.

ORANGE WINE.

Most suitable for making Quinine Wine because of its containing the least percentage of tannic acid possible, and being in the most brilliant condition. In casks of not less 8 gallons, 4s. per gallon, carriage paid. Extra superior quality (finest made), 4s. 6d. per gallon, carriage paid.

SAMPLES FREE AND CARRIAGE PAID UPON APPLICATION TO

LAMB & WATT, 46 and 48 ST. ANNE STREET, LIVERPOOL.

JAMES EPPS & CO.'S HOMOEOPATHIC MEDICINES

ARE SUPPLIED IN BOTTLES

FULLY LABELLED,
WITH PRINCIPAL USES, DOSE, AND REPETITION.

For Price List send Trade Card to

48 THREADNEEDLE STREET.

GREAT IMPROVEMENT IN BUTTER COLOURING.

BUNSEN'S ANNATTOINE FOR BUTTER COLOURING.

This Preparation, which is **PURELY VEGETABLE**, will be found to be much superior to any other Butter Colouring hitherto invented. Being an oily solution, it more readily combines with the milk fat, and consequently gives a more uniform tint; while at the same time it gives that pure, rich golden colour to Butter and Cheese so much appreciated.

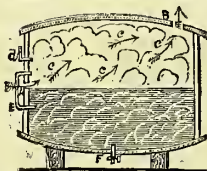
BUNSEN'S ANNATTOINE contains within itself all the requisites of a good Butter Colour. It is free from smell; tasteless; perfect in shade of colour and the Proprietors believe that a shilling bottle will colour a greater weight of Butter or Cheese than any other shilling's-worth in the market.

IN BOTTLES 1s. AND 2s. 6d. EACH.

Chemists should order a few Bottles as sample from their Wholesale House.

MANUFACTURED ONLY BY

BUNSEN, BENSON & CO., 80 FANN STREET, BARBICAN, LONDON, E.C.



NEW METHOD OF MAKING VINEGAR BY THE REVOLVING APPARATUS (Michaelis' Patent).

For further particulars

See the Chemists' and Druggists' Diary, 1884, page 274,

OR APPLY TO

PAUL ROTHERMEL,

205 (late of 27) LEADENHALL ST. LONDON.

RANDALL'S BLACK CURRANT LOZENGES.

	Net Cash.	To Acct.
Plain Black Currant, old square ..	2 6	2 8
" " " rough oval ..	2 6	2 8
Black Currant and Ipecacuanha ..	2 6	2 8
Black Currant and Tannin.. ..	3 0	3 3
Black Currant Voice (warm astringent) ..	3 0	3 3
Black Currant Cough Lozenges * ..	3 6	3 10

(* Ipecac. and Morph., strength as "B. P.")

In Bottles, 1 lb., 2 lbs., 4 lbs., and 7 lbs. For Exportation, in soldered tins, of any size. From EDWARDS, London; through any Wholesale House; and from the Manufacturers,

RANDALL & SON, Southampton,

Who will forward Samples by post on application.

Also, BROWN COUGH LOZENGES, 2s., 2s. 2d.; 7 lbs. stamped with name free, and MUSK LOZENGES (Special), 2s. 6d., 2s. 8d.

N.B.—Medical Lozenges of every kind.

Dispensing those of the Pharmacopoeia of the Hospital for Diseases of the Throat, London.

WILLIAM BUSH & CO.,

Manufacturing Chemists,

YORK STREET, WALWORTH, LONDON, S.E.

ESTABLISHED OVER 40 YEARS.

MAKERS OF

CITRATE of MAGNESIA,
MERCURIALS of every kind,
SWEET SPIRITS of NITRE,
SAL VOLATILE, B.P. & P.L.,
PURE VEGETABLE
COLOURS of every descrip-
tion, in Sugar and Paste
(to this department W. B. &
Co. have given special atten-
tion, to meet the requirements
of the trade);
GLACIAL ACETIC ACID,
CONFECTIONERY
FLAVOURS of every kind,
and
FRUIT ESSENCES.
SUPER ESSENCE of LEMON
only,
MINERAL ACIDS of every
kind,
TARTARIC, CITRIC, and
other ACIDS (not makers of
these, but in a position to offer),
BORACIC ACID, &c.

SOLE PROPRIETORS OF

MARIGOLDINE, NEW COLOUR FOR BUTTER, CHEESE, &c.



After a lengthened investigation, the Proprietors are enabled to offer this novel preparation, representing the rich colour of the Marsh Marigold, in a highly concentrated form. Being a Vegetable Extract, it will be found to impart to Butter a beautiful golden colour, free from taste, possessing its natural odour, and as pure as the herbage on which the animal feeds.

It is well known that in the Spring or Summer the rich colour of Butter is derivable from the Marsh Marigold and Ranunculi (Buttercups) of our pastures, and it has been the aim of the Proprietors to produce an article that will enable the dairyman to obtain uniformly the same results at all times of the year in the most agreeable form; and it is confidently believed that it will be found superior to every preparation hitherto sold for the purpose. Its perfect compatibility with oil and grease of every description (not watery compounds) makes it useful for many other purposes in which it is desired to obtain a rich and delicate golden tint.

Sold by Chemists, &c., and Wholesale Houses.

W. B. & Co. solicit inquiries, and will be happy to furnish Samples and Prices at all times.

CASH PRICE
20s. for 12½ GALLONS.
CASKS FREE.

School of Cookery, Crystal Palace, S.W.
 January, 1883.

MR. PETER TYRER,

SIR,—I have been using the "Borough"
 Ketchup, and am very pleased with it. Its
 flavour is excellent, both for all kinds of
 Savoury dishes and Soups; and I most cer-
 tainly should advise every cook and house-
 keeper to use it, FOR I HAVE NEVER YET MET
 ITS EQUAL.

MARIAN SMITHARD,
Lectress on Cookery.

MANUFACTORY—

70 LONG LANE, BOROUGH,
 LONDON, S.E.

Scotch Agency—115 West Nile Street, Glasgow.

DO NOT THROW MONEY AWAY
BUT WRITE
FOR A
FREE SAMPLE OF
SENT FREE
TO ANY ADDRESS

Tyrer's
"BOROUGH"
Ketchup

SILVER MEDAL
 LONDON.

SEVEN INJUNCTIONS have been granted during the past few months.



CAUTION! "YORKSHIRE RELISH."



NOTICE IS HEREBY GIVEN that in several actions instituted by Messrs. GOODALL, BACKHOUSE & CO., of LEEDS, Injunctions have been recently granted by Judges of the Chancery Division of the High Court of Judicature, restraining several persons from using several Counterfeits of Messrs. GOODALL, BACKHOUSE & Co.'s Labels, and in particular against the use of the words "YORKSHIRE RELISH." The sole and exclusive right to the use of which words having been finally established by the above Firm, they will take immediate proceedings against parties manufacturing or offering for sale Sauce under the above title, not being of the manufacture of Messrs. GOODALL, BACKHOUSE & Co.

Information may be given to the undersigned,

J. SEYMOUR SALAMAN,

12 KING STREET, CHEAPSIDE, LONDON,

Solicitor to the Trade Mark Protection Society.

TO INVALIDS

USE

MOIR'S

SOUPS

IN 1-lb. and ½-lb. GLASSES.

OX-TAIL SOUP (Clear)
 MOCK-TURTLE SOUP (Clear)
 BEEF TEA,
 CHICKEN BROTH.

MUSTARD.

FINCH, RICKMAN & CO.'S

Genuine Qualities

Are made from the finest mustard seeds only. Their compounds, as manufactured for upwards of a century, are guaranteed free from all ingredients imparting spurious heat, and are therefore equally suitable for both table and medical purposes.

6 BROKEN WHARF, UPPER THAMES STREET,
 LONDON.

USE **FREE FROM ALCOHOL**
ARTIFICIAL OIL OR
PRUSSIC ACID

UMNEY'S
ALMOND
ESSENCE

PURIFIED BY AN
 IMPROVED PROCESS

WRIGHT LAYMAN & UMNEY, MANUFACTURING CHEMISTS
 SOUTHWARK, LONDON.

The following well-known
MEDICINES, &c., OF APPROVED EFFICACY
 ARE PREPARED FROM
PRESCRIPTIONS OF EMINENT PHYSICIANS
 BY

REECE & COMPANY

MEDICAL HALL, PICCADILLY, LONDON,

From whom they may be obtained direct or through any of the
 Wholesale Houses.

PRICES AND TERMS ON APPLICATION.

DR. REECE'S SATURATED TINCTURE BUCHU,
 For Excessive Irritation of the Bladder, Prostrate Gland, Urethra,
 Rectum, &c., &c.
 Retail 2/9, 6/-. and 10/- per Bottle.

DR. ROBINSON'S TINCTURE CORNEL,
 For Local or General Debility from residing in Tropical Climates,
 indulgences in either Drinking or Eating, &c.
 Retail 2/9, 6/-. and 10/- per Bottle.

DR. SIGMOND'S TINCTURE CHIRAYITA,
 For Indigestion arising from Nervous Excitement of the Stomach,
 Obstruction of the Liver, &c., &c.
 Retail 2/9, 6/-. and 10/- per Bottle.

DR. WILLIAM'S ALKALINE WINE COLCHICUM,
 For Gout and Rheumatism,
 Retail 2/9, 6/-. and 10/- per Bottle.

**DR. REECE'S ALKALINE ESSENCE OF
 GINGER AND CAMOMILE,**
 For Indigestion from Debility attended with Flatulence and Spasms.
 Retail 2/9 per Bottle.

DR. DUNCAN'S LETTUCE LOZENGES,
 For Catarrh, Cough, Consumption, &c.
 Retail 1/1½ and 2/3 per Box.

DR. ANDREW'S ETHERAL TINCTURE LOBELIA,
 For Spasmodic Asthma.
 Retail 3/- and 5/6 per Bottle.

REECE'S COMPOUND ASARABACCA SNUFF,
 For Nervous Headache, Weakness of Sight, Hay Fever, Catarrh, &c.
 Retail 2/6 per Bottle.

REECE'S ARTIFICIAL HARROGATE SALT,
 For Inflammatory Irritations, Piles, Constitutional Costiveness, &c., &c.
 Retail 2/- and 3/8 per Bottle.

DR. DICK'S BENGAL ANTIBILIOUS PILLS,
 For obstinate or Constitutional Constipation, Sluggishness of the Liver,
 loaded state of the Viscera, &c., &c.
 Retail 2/9 per Box.

DR. SCUDAMORE'S CAJEPUT OPODELDOC,
 For Rheumatic or deep-seated Pains, Enlarged or Stiff Joints, Chilblains, &c.
 Retail 2/6, 5/-. and 10/- per Bottle.

PROF. HERTZ' LOTION OF THE MALIC ACID,
 For Removing and Preventing Accumulation of Tartar on the Teeth.
 Retail 2/- per Bottle.

WRIGHT'S LINIMENT FOR THE EAR,
 For Deafness occasioned by Cold, Hardened Wax, &c., &c.
 2/- per Bottle.

**REECE'S PREPARED CHARCOAL OF THE
 ARECA OR BETEL NUT,**
 For Preserving and Cleaning the Teeth.
 Retail 2/6 per Box.

REECE'S PERIODICAL ABSORBENT PADS
 Are without exception the most convenient, cleanest, and cheapest
 articles yet introduced for the Comfort of Ladies.

Whilst Travelling Indispensable.

Belt and Support, in Boxes, 2/6 each.

Absorbent Antiseptic Pads, in Boxes, 2/- per dozen.

DR. REECE'S "MEDICAL GUIDE TO HEALTH."

Simplest and best work of the kind.

Published at 168 Piccadilly, London. Price 5/- each

SEVEN PRIZE MEDALS AWARDED.

GOODALL'S HOUSEHOLD SPECIALITIES. YORKSHIRE RELISH.

THE MOST DELICIOUS SAUCE IN THE WORLD.

This cheap and excellent Sauce makes the plainest viands palatable, and the daintiest dishes more delicious. To Chops and Steaks, Fish, &c., it is incomparable. Sold by Grocers, Oilmen, Chemists, &c., in Bottles, 6d., 1s., and 2s. each.

CAUTION.—On each Yorkshire Relish Label is a Willow Pattern Plate, and name, GOODALL, BACKHOUSE & CO. No other is genuine.

Goodall's Baking Powder

THE BEST IN THE WORLD.

Makes delicious Puddings without Eggs, Pastry without Butter, and beautiful Light Bread without Yeast. In 1d. Packets; 6d., 1s., 2s., and 6s. Tins.

Goodall's Quinine Wine

The best, cheapest, and most agreeable tonic yet introduced. The best remedy known for Indigestion, Loss of Appetite, General Debility, &c. Restores delicate individuals to health and vigour. In Bottles, 1s. 1½d. and 2s. 3d. each.

Goodall's Custard Powder

For making delicious Custards without Eggs, in less time and at half the price. Unequalled for the purposes intended; will give the utmost satisfaction if the instructions given are implicitly followed. Sold in Boxes 6d. and 1s. each.

Goodall's Ginger Beer Powder

Makes Three Gallons of the Best Ginger Beer in the World for 3d.

Is a delicious and invigorating beverage, possessing valuable medicinal properties. It is cooling in its nature, and a most wholesome beverage for both winter and summer. Sold in Packets, 3d. and 6d. each.

Goodall's Blanc Mange Powder

Is acknowledged by all to be the most convenient and economical preparation ever introduced, as, by its use, a most Rich and Delicious Blanc-mange may be produced in a few minutes at a trifling cost, and may be had of various flavours, i.e., Raspberry, Strawberry, Lemon, Almond, and Vanilla. Sold in Packets, 6d. and 1s. each.

Goodall's Egg Powder

Acknowledged to be the only real substitute for eggs yet discovered. Its action on Cakes, Puddings, &c., &c., resembles that of the egg in every particular, enriching them in colour and flavour, rendering them most wholesome and nutritious. One penny packet will go as far as four eggs; and one sixpenny tin as far as twenty-eight. In 1d. Packets; 6d. and 1s. Tins.

SOLE MANUFACTURERS—

GOODALL, BACKHOUSE & CO., White Horse Street, Leeds.

A Monthly Price List of Druggists' Sundries, Patent Medicines &c. can be had most free on application.

F. DARTON & CO.,

MAKERS TO H.M.'S GOVERNMENT,

45 ST. JOHN STREET, WEST SMITHFIELD.

Established
1834.Established
1834.

Darton's Improved Imperishable Index Clinical Thermometers,

As noticed in the *Lancet*, *Chemist and Druggist*, &c., can be obtained only of the Inventors and Makers; cannot get out of order, and are therefore specially suited for Export.

PLAIN CLINICAL THERMOMETERS, (Fahrenheit or Centigrade Scale).

4 or 6 in., in case. 3/6 each.

4 in. or 6 in. ditto, contracted in Ebony Case, 4/ each.

If with Magnified Bore, 6/ each.

DARTON'S IMPROVED DITTO, IMPERISHABLE INDEX, 4 or 5 in., 5/ each.



FIG. 2.

Ditto, Enlarged and Magnified Bore, with lens front, 7/ each.



FIG. 2.

One Bent and One Straight 6-inch Clinical Thermometer, in Morocco Snap Case, 10/6 the set

Kew Certificates, 1/3 each extra.

Thermometers for special purposes made to order at a few days' notice. A large stock of Barometers and Thermometers always on hand.

BATH THERMOMETERS, Japanned Tin Cases, Silvered Metal Scales, 8 inches long, 12/ per dozen.

Ditto, Enamelled Tubes, with Dr. Forbes' Specifications, 15/6.

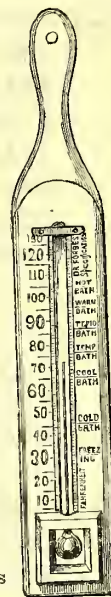
Ebonised Thermometers, with Enamelled Mercury Tubes, 4/6 per dozen.

8-in. Boxwood ditto, with spirit tubes, 6/ per dozen.

" " Enamelled Minimums, 15/ per dozen.



DARTON'S IMPROVED PORCELAIN DAIRY AND BATH THERMOMETER cannot get out of order or illegible through use, as is the case with the ordinary Bath Thermometer, and is much cleaner for Dairy purposes. 36/ per dozen.



ELECTRIC BELLS.

New Form Metal Frame Electric Bell, with 2 1/2 Plated Dome, 4/6 each. Complete, with Large Battery, Push Piece and Wire, and Instructions for fixing, 10/6.

If with best quality bell, 14/6.

Invalids' Electric Bell Set, with Bell and Battery in Polished Case, 30 feet of Flexible Line Wire, and Pear Push, 21/ each.

Invalid's Electric Bell Set, in polished Mahogany Case, with 3-in. best bell, 27/.

New Patent Electric Gas Lighter, 17/6 each.

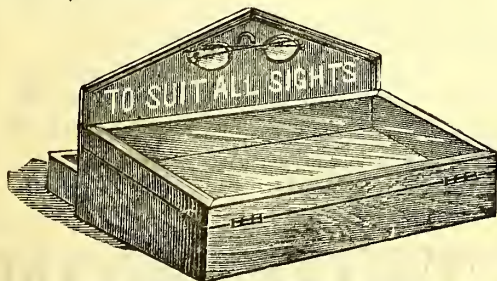
Estimates given for Fitting up Houses or Shops.

Magneto Electric Machines, in Pine Case, 9/ and 10/6; ditto in Mahogany, 16/6; ditto, best quality, with plated handles, &c., 22/6.

ILLUSTRATED PRICE LIST OF ELECTRIC BELLS AND FITTINGS SENT POST FREE ON APPLICATION.

SPECTACLES.

For the convenience of Customers who have not yet started the Sale of Spectacles, we fit up Show Cases, containing an assortment of Spectacles, complete with Sight Tester and Instructions, as follows:—



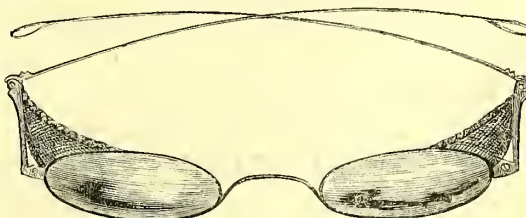
Our £2 2s. SHOW CASE for the Counter, in Polished Mahogany, contains 4 dozen Spectacles, Sight Tester, and Instructions for suiting sight.

Our £3 3s. CASE contains, in addition, 2 dozen Folders and 2 dozen Cases.

Larger sized Cases, in Polished Mahogany or Ebonised, with an assortment of superior quality Spectacles, Folders, and Cases, £6 6s. and £10 10s.

Ditto, with assortment of Best Pebble Spectacles and Folders, £21.

BOWMAN'S GOGGLES, with Neutral Tint, Domed Glasses and Gauge Cups, as recommended by the leading Oculists for weak and inflamed eyes. Best Quality, 78/ per dozen.



Cases for ditto, solid leather, 12/ per dozen.

NEUTRAL TINT, "D" EYE SPECTACLES, best quality, 48/ per dozen.

DOMED SPECTACLES, Coloured Glasses, common, 4/6, 8/, and 10/ per dozen.

Ditto, Best Steel Frames, 24/ per dozen.

Ditto ditto, and with Worked Glasses, 30/ per dozen.

Illustrated Price List of Spectacles on application.

ANTISEPTIC INHALERS.

See Book of Illustrations, pages 407 and 408.

AUSTIN'S—

										£	s.	d.
Patent Pocket, Tube Form, Glass	...	...	...	...	...	...	...	each	0	2	8	
Patent Pocket, Tube Form, Metal	...	...	...	...	...	...	...	"	0	4	2	
Patent Pocket, Tube Form, Vulcanite	...	...	...	...	...	...	...	"	0	4	2	
Patent Pocket, Bottle Form, Vulcanite	...	...	...	...	...	...	...	"	0	8	0	
Patent Pocket, Bottle Form, Cut Glass	...	...	...	...	...	...	...	"	0	8	0	
Patent Pocket, Tube Form, Pure Silver	...	...	...	...	...	...	...	"	0	16	0	
Carbolate of Iodine for above	...	...	...	...	...	...	...	"	0	0	9	
Tubulettes for Inhalers	...	...	...	...	...	...	...	"	0	0	9	

COGHILL'S, Fig. 1—

Celluloid	...	...	...	...	...	...	...	...	...	"	0	3	6
Metal	...	...	...	...	...	...	...	...	...	"	0	2	8
Metal Covered	...	...	...	...	...	...	...	...	...	"	0	5	0

Solution for ditto, 1/ each extra.

COGHILL'S IMPROVED, Fig. 5—

Celluloid	...	...	...	...	...	...	...	...	...	"	0	3	6
Metal, Nickel Plated	"	0	3	0

Solution for ditto, 1/ each extra.

COUSINS' (Southsea)

...	"	0	3	8
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COSGRAVE'S

...	"	0	4	0
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MACKENZIE'S, Fig. 6—

Bronzed	"	0	3	6
Celluloid	"	0	5	0
Metal Nickel-plated	"	0	7	6

Solution for ditto, 1/ each extra.

ROBERTS', Fig. 2—

Bronzed	...	...	...	...	...	...	...	...	...	"	0	2	4
Celluloid	...	...	...	...	...	...	...	...	...	"	0	3	6
Metal Nickel-plated	...	...	...	...	...	...	...	...	...	"	0	3	6

Solution for ditto, 1/ each extra.

YEO'S—

Zinc	per dozen, 6/ and	0	8	0
------	-----	-----	-----	-----	-----	-----	-----	-----	-----	-------------------	---	---	---

SPECIAL QUOTATIONS TO WHOLESALE BUYERS.

S. MAW, SON & THOMPSON,
ALDERSGATE STREET, LONDON.

MAW'S

EARTHENWARE INHALERS

For Hot Water, Infusions, &c.

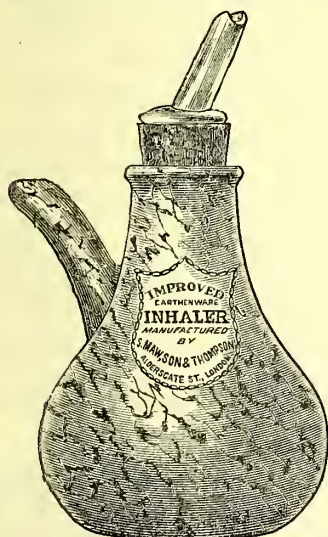


FIG. 8.

MAW'S IMPROVED.



FIG. 13.

ELASTIC TUBE.



FIG. 100.

MAW'S INVALID.



FIG. 8a.

MAW'S IMPROVED.

Fig. 8:—Marbled, 32s. per dozen.

Fig. 100:—White, 33s.; Gilt Lines, 39s. per doz.

This Pattern is specially adapted for use in bed.

Fig. 8a:—White, 21s. per doz.; Retail, 2s. 6d. each.

ELASTIC TUBES, as Fig. 13, will fit any of the above.

7 inches long, including Mouth-pieces ... 8s. per dozen.

9 inches long, including Mouth-pieces ... 12s. per dozen.

MANUFACTURED BY

S. MAW, SON & THOMPSON,

LONDON.



W. H. BAILEY & SON,

38 (late 16) OXFORD ST., LONDON,

Six doors from Hanway Street.

ESTABLISHED A.D. 1833.



FIRST PRIZE (SILVER MEDAL) FOR TRUSSES AWARDED BY THE
WORSHIPFUL COMPANY OF CUTLERS OF THE CITY OF LONDON, MAY, 1879.

FIG. 1.

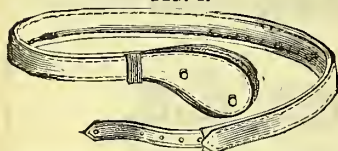
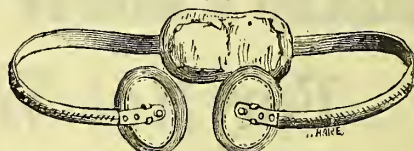


FIG. 4.



FIG. 5.



TRUSSES.

Circular Trusses, single, as Fig. 1, basil and chamois or basil and moleskin	per doz.	£1 1 0
Circular Trusses, double, basil and chamois or basil and moleskin	per doz.	1 14 0
" " " with extending backs	"	2 14 0
Salmon & Ody's Expired Patent, single, Fig. 4	"	1 10 0
" " " double, Fig. 5	"	3 0 0
Moc-Main Lever, single	each	0 8 0
" " double	"	0 13 6
Coles's Expired Patent, single	"	0 6 0
" " double	"	0 12 0
Scrotal Trusses, basil and chamois or moleskin, single	"	0 4 0
" " " double	"	0 7 0

SUSPENSORY BANDAGES.

No. 1. Cotton Bags and tape under-straps	per doz.	£0 8 0
2. Cotton Oxonian, with drawing-strings	"	0 10 0
3. Silk Bags and tape under-straps	"	1 1 0
4. Silk Oxonian, with drawing-strings	"	0 18 0
5. Silk Oxonian Bags bound with elastic	per doz.	1 4 0

SUSPENSORY BANDAGES—continued.

No. 6. Silk Oxonian, superior quality, bands of buff jean, with drawing-strings	per doz.	£1 4 0
7. Silk Bags, to button on, with tape under-straps	"	1 1 0
8. " " " under-straps to button	"	1 4 0

ELASTIC STOCKINGS, KNEE-CAPS, ETC.

Manufactured expressly for Export, and warranted to stand a hot climate better than any others in the Market.

	Silk.	Super. Silk.	Cotton.	Super. Cotton.
Stockings .. per pair	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Knee-caps ..	0 10 0	0 15 0	0 6 0	0 7 0
Calf-pieces ..	0 6 6	0 10 8	0 4 0	0 5 6
Socks ..	0 7 6	0 10 0	0 4 6	0 6 0
Wristsands ..	0 5 6	0 8 6	0 3 10	0 5 0
Knee Stockings ..	0 2 3	—	0 1 8	0 2 0
Belts, to draw on .. each	0 16 0	1 5 0	0 9 2	0 12 1
	0 16 8	—	—	0 12 0

The above may be obtained direct from the Manufacturers, or from their Wholesale and Export Agents
Messrs. Barclay & Sons, 95 Farringdon Street.

UNIVERSAL

TUBULAR WATER & AIRBED

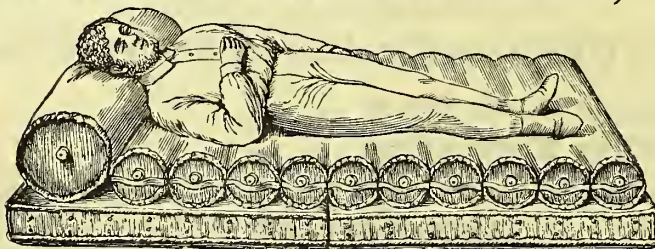
Prize Medals, Sanitary Congress, 1878; Industrial Exhibition, York, 1879; Certificate of Honour, Sanitary Congress, 1879; Brighton, 1881; International, 1881; Kensington, 1882.

POCOCK BROTHERS,

PATENTEES AND SOLE MANUFACTURERS,

235 SOUTHWARK BRIDGE ROAD, LONDON.

Consists of a series of separate and distinct cylinders, any diameter and suitable length, made of Waterproof material either for Water or Air, fitting into a case which keeps them side by side, but slightly apart.



ITS ADVANTAGES
OVER
ORDINARY WATER
OR
AIR BEDS ARE AS
FOLLOWS :—

1. In cost it is less expensive.
2. It is warm and light, and well adapted for a camp or field-bed, being waterproof.
3. It is quickly filled and easily adjusted.
4. It admits of ventilation in the space between the tubes.
5. It can be regulated so as to relieve pressure from any part required.
6. By the addition of tubes it will raise one part of the body higher than the rest.
7. By the temporary removal of one or two tubes it affords room for the introduction of bed-pan.

8. It can be inclined to any angle (even when filled with water) to suit the condition of the patient.
9. It is free from noise and surging, so disagreeable to the invalid on changing his position on a water-bed.
10. In case of injury to a tube it can be withdrawn, and a fresh one substituted at a trifling cost, and without loss of time; whereas the ordinary water-bed if injured in any part (from being in one compartment) is rendered useless.
11. In the treatment of insane or paralysed invalids who have no control over their evacuations, they cannot lie in a pool of wet, the fluid passing away between the tubes.

NEW IMPROVEMENTS IN PHARMACY.

THE BURROUGHS INHALER

"Is an ingenious and convenient device for inhaling chloride of ammonia fumes. By its use the chloride of ammonium is brought in more intimate contact with the mucous surfaces of the passages of the nose and throat than by any other form of inhaler."—THE MEDICAL PRESS AND CIRCULAR Reports.

EXTRACT OF MALT (KEPLER).

THE LANCET says of the Kepler Extract of Malt: "The best known, and in this country the largest used, Extract of Malt. It is as distinct an advance in therapeutics as was the introduction of cod-liver oil." And further adds, "It is very good, and may be used with confidence."

COD-LIVER OIL WITH EXTRACT OF MALT (KEPLER).

This is an emulsified combination of the purest fresh Norwegian Cod-Liver Oil with 50 per cent. of Extract of Malt (Kepler).

So combined, the oil is subdivided into minute particles, which can be seen under the microscope to be as fine as the granules of milk, and so much finer than any that can be obtained by any emulsion with gums. On the fineness of the emulsion depends the digestibility of the oil. "The digestive change undergone by fatty matters in the small intestine consists mainly in their reduction into a state of emulsion, or division into infinitely minute particles."

BEEF AND IRON WINE (BURROUGHS).

"This is a really valuable preparation, and, as far as we know, a novelty. It contains beef-juice and citrate of iron in solution in wine, and is therefore a very powerful and rapidly-acting tonic. Children, as well as adults, take it easily, and as its taste is by no means unpleasant, it can hardly fail to attain great popularity."

LAWTON'S ABSORBENT COTTON

"Has been pronounced by some of our most eminent surgeons the very best absorbent for taking up discharges; it is very fine and soft, and acts instantly."—THE MEDICAL PRESS AND CIRCULAR.

HAZELINE.

Hazeline is distilled from the fresh green inner bark of *Hamamelis Virginica*, the American Witch Hazel. It represents, in a concentrated form, all the active principles of the plant. It is a clear, colourless fluid, having a fragrant, agreeable odour, and slightly astringent taste. Does not stain linen, and is entirely free from toxic or irritating properties.

THE COMPRESSED TABLETS (WYETH)



Of Chlorate of Potash and other drugs usually employed for throat affections. Chlorate of Potash with Borax, Chlorate of Potash with Chloride of Ammonium, Chloride of Ammonium with Borax, &c. The pure drug, without any addition, is compressed in very small lenticular discs, which are easily retained in the mouth while singing or speaking. The great advantage of these Tablets over the ordinary lozenges is, that they are free from the irritating saccharine matter with which ordinary lozenges are diluted. They are now almost universally prescribed by the Profession in preference to the usual gargles, for when allowed to dissolve in the mouth the saliva becomes charged with the salt, carrying it directly to the affected parts, thus really securing all the beneficial effects of a continuous gargle, without the injurious exertion which was required by the old method. Supplied in packages at 1s., 2s., and 3s.

THE SOLUBLE COMPRESSED HYPODERMIC TABLETS (WYETH).

The following formulæ and combinations embrace all those in general request. Others will be added as the demands of the profession warrant.

We claim for the Wyeth Hypodermic Tablets:

ABSOLUTE ACCURACY OF DOSE.
READY AND ENTIRE SOLUBILITY.
PERFECT PRESERVATION OF THE DRUG.

Their convenience and utility will at once be apparent on examination.

Morphiæ Sulphas ..	1-3 grain.	Morphiæ Sulphas ..	1-8 grain.
Morphiæ Sulphas ..	1-4 grain.	Atropiæ Sulphas ..	1-200 grain.
Morphiæ Sulphas ..	1-6 grain.	Morphiæ Sulphas ..	1-12 grain.
Morphiæ Sulphas ..	1-8 grain.	Atropiæ Sulphas ..	1-250 grain.
Morphiæ Sulphas ..	1-12 grain.	Atropiæ Sulphas ..	1-60 grain.
Morphiæ Sulphas ..	1-3 grain.	Atropiæ Sulphas ..	1-100 grain.
Atropiæ Sulphas ..	1-120 grain.	Atropiæ Sulphas ..	1-150 grain.
Morphiæ Sulphas ..	1-4 grain.	Strychniæ Sulphas ..	1-60 grain.
Atropiæ Sulphas ..	1-150 grain.	Strychniæ Sulphas ..	1-100 grain.
Morphiæ Sulphas ..	1-6 grain.	Strychniæ Sulphas ..	1-150 grain.
Atropiæ Sulphas ..	1-180 grain.		

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1. It is easily administered, the dose being very small.
2. It has no unpleasant taste or smell.
3. It does not irritate the stomach.
4. It has no effect on the bowels, producing neither constipation nor diarrhoea.
5. It does not blacken the teeth.

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MANUFACTURING CHEMISTS,
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See "CHEMIST AND DRUGGIST," December 15th, 1874.

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THE CHEMIST AND DRUGGIST is supplied regularly by arrangement with their respective Councils to all members of the following societies:—

The Pharmaceutical Society of Victoria.

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The Pharmaceutical Society of Queensland.

The Pharmaceutical Society of New Zealand.

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The Australasian edition of THE CHEMISTS AND DRUGGISTS DIARY, 1885, was despatched by the Orient steamer *Austral*, which left London on November 12. We trust all subscribers will receive their copies before the beginning of the year. We shall despatch all our other foreign copies during this month, and British copies will be sent out by Sutton & Co. in the first week of December. The Treatise on Dispensing, which forms the most prominent feature of the work, is remarkably complete, and will be found most valuable. Interspersed with the text will be found numerous comments which were made on the proofs by eminent pharmacists. To these paragraphs are attached the initials of the writers, which are as follows:—J. F. B., A. W. G., T. G., W. G., J. I., P. M., T. M., W. M., B. S. P., R. H. P., J. H. W. We are receiving a number of orders for the Diary from non-subscribers, and all orders will be filled in rotation. The Diary is sure to be sold out, however, before long, and as a great many of our subscribers will wish to have extra copies for their assistants or apprentices, we insert this reminder. To subscribers, the cost of an extra copy is 2s. 6d.; to non-subscribers, 3s. 6d. No variation is made from this rule, whether the Diary is sup-

plied in the Office or sent by Sutton. In the latter case we pay the carriage. We suggest early application on the part of all who require copies.

We offer a prize of two guineas for the best chemist's circular which we may receive not later than December 4. Particulars are given under Editorial Notes.

Edinburgh has held high festivity during the past week to celebrate the opening of the new premises of the North British Branch of the Pharmaceutical Society.

The Dublin chemists have formed a club, in which "reading-room and billiards" seem to be as prominent as "lectures and classes."

A chemist's apprentice has been killed at Kingsbridge by an explosion, apparently occasioned by triturating some chlorate of potash and sulphur in the preparation of red fire

The Midland Counties Chemists' Association have commenced the collection of debts for their members.

A "Peter Squire" botanical prize is to be instituted in connection with the Pharmaceutical Society, from funds to be provided by the late Mr. Peter Squire's relatives.

Representatives of the Pharmaceutical Society of Australasia have had an interview with a prominent member of the Victorian Government, with the object of obtaining Government assistance towards the equipment of their college. They did not, however, obtain much encouragement.

The London Chamber of Commerce has drawn up a scheme of commercial arbitration for the settlement of business disputes more promptly and economically than can be done by the ponderous machinery of the Law Courts.

The Chemists' Aërated Waters Association (Limited) have held their annual meeting, at which a dividend of 6 per cent. was declared. They report a serious embezzlement by one of their servants at Harrogate.

As soon as Parliament met for the autumn session Mr. Warton gave notice of his intention, on the 11th inst., "to call attention to the manner in which the Government has dealt with the question of the sale of poisonous patent medicines, and to move a resolution." On the evening fixed the third reading of the Franchise Bill had precedence of all other business; and Mr. Warton, probably doubtful of his chance of retaining an audience after that discussion, postponed his motion till December 9.

Sir John Lubbock, M.P., has again introduced a Bill for the regulation of shop-hours. The Bill would forbid the employment of young persons between the ages of thirteen and eighteen in a shop for a longer period than twelve hours in any one day. The "shops" here referred to include retail and wholesale shops and warehouses in which assistants are employed for hire, but not licensed public-houses or refreshment-houses of any kind. The maximum penalty for infringing the regulation is fixed at 5*l.* for each person employed illegally, and is to be recovered in the same way as penalties under the Factories Act.

CORNER FOR STUDENTS.

CONDUCTED BY RICHARD J. MOSS, F.C.S.

QUALITATIVE ANALYSIS.

THE subject of the next exercise in qualitative analysis will be a mixture of salts. It is to be submitted to a thorough systematic examination, designed to detect all its constituents and to demonstrate the absence of other substances. A complete report of the analysis is to be furnished, giving a list of the metals and of the acidulous radicles detected, and distinguishing those that may be regarded as accidental impurities.

Applications for portions of the mixture will be received up to November 20, and the samples will be forwarded on the 25th.

Students' papers will be received up to December 15.

REPORTS.

The mixture of salts sent to students in September consisted of:—

	Parts
Lead nitrate	16
Cobalt nitrate	1
Barium nitrate	16
Ammonium nitrate	16

The calculated composition of 100 parts of this mixture is as follows:—

Pb	23.42
Co .. .. .	.41
Ba	17.14
NH ₄	7.35
NO ₃	53.92
H ₂ O .. .. .	.76
	100.00

The constituent that is most frequently overlooked in the reports we have received is ammonium. Cobalt is next in order in the difficulty experienced in its detection, and after that barium. The two chief constituents, lead and the nitric radicle, were detected in almost every case. The failure to detect ammonium is to be attributed generally to the omission of the student to apply the necessary tests; in other words, he forgot to look for this constituent. This shows great carelessness and want of system. It will be observed that there was very little cobalt present—less than $\frac{1}{2}$ per cent.—yet it was detected by more than two-thirds of our contributors on this occasion. This is due, partly to the fact that it was the only member of its group in the mixture, and partly to the highly characteristic and sensitive reactions of the metal.

The detection of barium in the presence or absence of strontium and calcium is a comparatively simple matter, but if barium is detected the other two metals are not so easily disposed of. The reactions of the three metals are so very similar that strontium and calcium cannot be satisfactorily detected by purely chemical tests in the presence of barium. By means of the spectroscope the difficulty is in a great degree removed, but the apparatus required is beyond the reach of most students. The removal of barium from a solution supposed to contain the other two metals may be effected in several ways. One of the best depends upon the insolubility of barium silicofluoride. This compound is precipitated as a crystalline powder. It is soluble in 3,800 parts of cold water; it is much more soluble in hot water, or in water containing hydrochloric acid or ammonium chloride. It is almost insoluble in alcohol. The latter property of this salt is utilised in the method of precipitation usually adopted. The barium solution, which should not be alkaline or strongly acid, is mixed with an excess of hydrofluosilicic acid, and

strong alcohol is then added to the extent of about one-third of the volume of the liquid. After standing a few hours, the precipitate is separated by filtration, and the filtrate is tested for strontium and calcium by adding sulphuric acid and boiling the precipitated sulphates in a strong solution of ammonium sulphate. If calcium sulphate is present it will be dissolved, and the solution will give a precipitate with ammonium oxalate. Strontium sulphate is not dissolved by a boiling solution of ammonium sulphate. Other methods of separation may be employed, but none of them give sharper or more satisfactory results. Hydrofluosilicic acid should be kept in a guttapercha bottle. A simple method for preparing this reagent is to dissolve silica in hydrofluoric acid, which is now readily obtainable in a state of sufficient purity for all laboratory purposes.

PRIZES.

The First Prize for the best analysis has been awarded to

A. W. MORVELL, 7 Market Place, Chesterfield.

The Second Prize has been awarded to

R. E. DORAN, Bray, co. Wicklow.

Marks Awarded for Analyses.

A. W. Morvell (1st prize)	98
R. E. Doran (2nd prize)	93
E. T. Towill	90
"Catalysis"	90
G. F. Barratt	85
C. D. Marson	83
T. S. Adair	80
E. F. Miller	80
H. S. H.	80
E. H. Naudain	75
F. A. P.	75
W. S. Patchett	70
H. André	50
E. J. M.	40
J. B.	0

TO CORRESPONDENTS.

Prizes.—The students to whom prizes are awarded are requested to write at once to the Publisher, naming the book they select, and stating how they wish it forwarded.

Any scientific book that is published at a price not greatly exceeding half-a-guinea may be taken as a first prize.

Any scientific book which is sold for about five shillings may be taken as second prize.

* All communications should include the names and addresses of the writers.

G. F. Barratt.—Caustic potash and soda often contain traces of aluminium; if they are to be used in testing for that metal their purity should be ascertained. A convenient way of obtaining very pure sodium hydrate solution is by the action of water upon metallic sodium.

C. D. Marson.—The method you used for the separation of barium is about the best that can be employed. Your acid had probably undergone decomposition, but this would not account for the red-flame colouration produced by the residue. There was nothing present to produce such a result.

T. S. Adair.—Heating with potassium hydrate is not as good a test for ammonium as that with calcium hydrate. This test is described in our Notes to Correspondents last September.

E. F. Miller.—The ferric chloride test for acetic acid requires careful study. The changes of colour of ferric chloride solutions with variations of temperature are liable to mislead.

H. S. H.—There was a sufficient quantity for several analyses. The method you employed prevented an examination for the alkali metals.

E. H. Naudain.—As you cannot have your portion of salts soon as students living in Europe, your paper will be accepted if it is posted in the United States on or before the 15th of the month. It is desirable that your report should give more detail of the work done, otherwise it is difficult to trace the cause of any error which may arise.

F. A. P.—Contrary to your experience, we found the precipitate produced in the original solution by hydrochloric acid quite soluble in hot water.

E. J. M.—You can readily prepare a mixture of the composition given above, and repeat the analysis. If you do this you will be well repaid for the trouble. This is the best way to avoid a repetition of such errors as those into which you fell.

J. B.—It would be useless to attempt to point out the various causes of your mistakes. You must study the reactions experimentally, instead of trusting to what you merely read about them. Practice with mixtures of known composition will help you greatly.

The Pharmaceutical Council.

THE monthly meeting of the Council was held on November 5, and all the members, except one, attended. After the election of associates, &c., the report of the

BENEVOLENT FUND

Committee was taken. It was mentioned that a donation of 21*l.* had been received from the Committee of the Junior Pharmacy Ball, through the honorary secretary, Mr. W. H. Kerr. One grant of 15*l.* and four of 10*l.* each were recommended. The Committee thanked Mr. Vizer for some suggestions he had offered with regard to the fund, but did not see their way to adopt them. The report was agreed to.

A NATIONAL HERBARIUM.

In the report of the Library, Museum, &c., Committee was included a letter from Mr. James W. White, of Clifton, who had sent for the museum 120 specimens of beautifully-preserved South-West of England plants, which had been collected by himself. Mr. White suggested that, if one or two botanical pharmacists in each of Watson's provinces would make a collection in their respective districts, a thoroughly representative British herbarium would be formed, which would be creditable to the Society.

THE LIBRARY CATALOGUE.

The PRESIDENT said the Committee hoped to make an economical arrangement, whereby this catalogue could be printed annually at the same cost as is now incurred for printing it every five or six years.

EXAMINERS FOR THE SOCIETY'S PRIZES.

The Committee recommended that the regulations affecting the Council prizes and Jacob Bell Scholarships be altered, so as to allow of the appointment of persons not members of the Board of Examiners to conduct such examinations.

The PRESIDENT said it was thought there were many capable men throughout the country who had not the time to undertake the office of examiners, but who would be willing to conduct a written examination on any branch on which they were authorities. This would be a compliment to them, and would, perhaps, be the means of keeping up interest in the Society's work. Of course, it did not preclude the Council from appointing the regular examiners. In reply to Mr. Williams, he said the examiners chosen would not necessarily be confined to members of the Society. Mr. GREENISH cordially supported this new departure, but Mr. WILLIAMS thought it ought not to be agreed to without consideration, and he was sorry the Committee had come to this conclusion. The recommendations were agreed to.

THE SOLICITOR'S REPORT

Included the following details:—

W. Wills, grocer, Bridge Street, Exeter, had paid a penalty of 5*l.* and costs into court.

F. Bradley, 161 York Street, Hulme, Manchester, had paid two penalties and court costs into court.

T. W. Dyball, 27 St. Nicholas Street, Ipswich, had paid 5*l.* penalty and costs.

N. Withnal, Moss Lane West, Manchester, had paid a penalty of 5*l.* and court costs, and a judge's order had been obtained for payment of costs on the higher scale.

A case of infringement had been considered by the Committee, and it was recommended that proceedings be taken.

PETER SQUIRE PRIZE IN PRACTICAL BOTANY.

A letter was read from Mr. Balmanno Squire in reference to the foundation of a botanical prize in memory of the late Mr. Peter Squire. The letter was ordered to be acknowledged, with the thanks of the Council for Mr. Balmanno Squire's offer of funds for that purpose.

It was also resolved that notice should be given that the prize will be competed for in July next. The prize will be known as the "Peter Squire Prize in Practical Botany," and it will be open for competition to all persons who have passed the Minor examination since the commencement of the previous October.

THE EXAMINATIONS.

The reports from the Boards of Examiners showed the following results of the October examinations:—

For the Major, in London 12 candidates were examined, and 3 passed. In Edinburgh 1 was examined; and failed.

For the Minor, 105 presented themselves in London, and 34 passed. In Edinburgh, out of 47 candidates, 23 passed.

For the Modified there was 1 candidate in Edinburgh, who passed.

For the Preliminary there had been 288 candidates, of which number exactly one-half had passed. Twenty certificates had been received in lieu of the examination.

Pharmaceutical Society of Ireland.

THE monthly meeting of the Council of the Society was held on November 5, the President, James A. Brunker, Esq., M.A., in the chair. The other members present were Sir George Owens, Professor Tichborne, Dr. Collins, Messrs. Allan, Hodgson, Doran, Hayes, and Simpson.

A letter was read from Mr. Thos. R. Connolly, of Kingstown, stating that in October, 1882, he passed the Matriculation examination of the Queen's College, Cork (one of the examinations accepted in lieu of the Preliminary examination of the Pharmaceutical Society). He had applied for a certificate of having passed the examination, but was informed that the ordinary certificate was only issued to those who studied in the College. Professor Jack, the Registrar of the College, had, however, written a letter to his father, stating that he had been admitted a matriculated student. The writer desired that this letter should be accepted as sufficient proof of his having passed the examination, as he wished to present himself at the Pharmaceutical Society's January examination for the licence, and was in every other respect qualified to do so.

The PRESIDENT said the only question was whether the Council deemed the Registrar's letter sufficient evidence that Mr. Connolly had passed the Matriculation examination of the College.

On the motion of Dr. COLLINS, seconded by Mr. HODGSON, the letter of the Registrar of Cork College was accepted as sufficient evidence that Mr. Connolly had passed the Matriculation examination there.

The PRESIDENT said the report of the Law Committee contained a complaint from a licentiate in Belfast of the irregular sale of poisons by a firm in Belfast, and made a recommendation thereon.

On the motion of Sir GEORGE OWENS, seconded by Mr. DORAN, the report was adopted.

A report of Dr. John William Moore, who conducted the Preliminary examination of candidates, stated that ten candidates had presented themselves for that examination, of whom eight had passed.

The report of Dr. George F. Duffey, Professor Davy, and Mr. Charles Evans, examiners for the licensee, stated that only one candidate, Mr. William John McDade, had presented himself, and that he had passed. His marks were as follows:—Botany, 10 out of 40; materia medica, 40 out of 60; chemistry, 76 out of 100; pharmacy, 65 out of 100; total gained, 191.

The PRESIDENT remarked that Mr. McDade's marks in botany were very low. The other marks were fairly good.

A Member of the Council suggested that the certificate should be withheld.

Professor TICHBORNE: The Council have nothing to do with the examination. They can only change the examiners. They cannot veto their return. If they did so they would be constituting themselves examiners.

The PRESIDENT: We have power to call the attention of the examiners to our opinion as to the answering.

Mr. ALLEN said he had a resolution on the subject of the requisite answering at examinations which he had not yet been able to move.

The PRESIDENT: We can only accept the report.

Some financial business having been disposed of, the Council adjourned.

Metropolitan Reports.

MESSRS. LYNCH & CO.'S EMPLOYÉES held their fourth annual dinner at Mason's Hall Tavern, on Saturday, October 25. Covers were laid for about fifty. The chair was taken by Mr. J. Cocks, and the vice-chair by Mr. G. Williams. The dinner was followed by toasts, songs, and recitations. The toast of the evening, "The Firm," was given by Mr. J. F. Jones, and was received with such enthusiasm that it is evident that both partners are as much esteemed by their employés as they are by their business acquaintances. It was responded to by Mr. Peck. Evidently Messrs. Lynch & Co. would be able from their own staff to fill a large order for vocalists of more than average quality. The evening was spent most pleasantly.

COUNTERFEIT COIN.—At the Marylebone Police Court, on November 11, Alfred Edwin Morse, 18, a smartly-dressed young man, who gave the address 169 Edgware Road, was charged with uttering, on November 3, 4, and 10, counterfeit half-crowns at the shops of Thomas Martin Minnis, chemist, 37 Crawford Street; Thomas Charles Jones, chemist, 8 South Street, Manchester Square; Henry Edwin Godfrey, chemist, 24 Park Terrace; and Peter Taylor, chemist, 5 Hanover Place, Regent's Park, and at a baker's.—On being searched five counterfeit half-crowns were found, wrapped in paper, in one of his pockets, and in another 1s. 6d. good money, and a box of pills.—In reply to the charge, the prisoner said he picked up the coins found on him in the Bayswater Road some weeks ago.—Mr. Lushington remanded the prisoner for the attendance of the Treasury solicitor.

POSSESSION OF UNSTAMPED WEIGHTS.—On October 22, at Clerkenwell Police Court, Mr. Anderson Forsythe, surgeon, of Great College Street, Camden Road, was summoned, under the Weights and Measures Act, 41 and 42 Vic., cap. 49, for having a number of unstamped weights for use in his business, contrary to the statute. Mr. Ricketts, solicitor, who prosecuted on behalf of the parish of St. Pancras, said that, under the 37th section of the Act, measures, weights, &c., used for the weighing out or measuring of vendible articles, were required to be stamped by a competent authority—in this case the official of the parish. The defendant, when visited by Mr. Gibson, inspector of weights and measures, had been found in possession of a number of small weights used for the dispensing of his drugs, all of which were unstamped. One, a five-grain weight, really weighed five and a half grains—a most dangerous difference, as in the case of poison being dispensed it might be the difference between kill and cure. There was no question of cheating the public, the summons having been taken out to compel compliance with the Act for the protection of the public. The evidence of the inspector showed that of the ten weights found two were light, four heavy, and four were correct. The defendant denied that the weights in question were for use in the shop. They were the same the inspector had complained of before, and had been discarded. The inspector had received them by mistake. A new set had been in use since May last. Mr. Barstow said that the evidence before him was quite to the contrary, and he could only act on it. He fined the defendant 40s. and costs.

SALICYLATED PASTE.—The *Journ. de Pharm. et de Chim.* quotes from the *Annales de Dermatologie* a treatment of eczema proposed by Dr. O. Lassar:—Vaseline, oxide of zinc, and starch carefully triturated into a homogeneous, unalterable, and very white paste, which does not melt at the ordinary temperature of the body, is found a valuable application in many cutaneous affections. Its particular superiority is its porosity. Greases generally do not permit the escape of the lymph exuding in inflamed conditions of the skin, and favour the formation of scabs; but this paste lets any fluid pass, and forms a protection between it and the skin. The paste is made from 20 parts of vaseline and 10 parts each of oxide of zinc and starch. In eczema the addition of 2 per cent. of salicylic acid is found most valuable, while in the eczematous affections of the heads of children Dr. Lassar finds an ointment composed of 50 parts of vaseline with 1 of salicylic acid and 2 of tincture of benzoïn useful.

Provincial Reports.

ABERDEEN.

NEW MEDICAL OFFICER.—At a meeting of the City Parochial Board a new medical officer was chosen for the St. Nicholas Parish. There were six candidates, and the two who received the highest votes were Dr. Gordon twelve, Dr. Presslie ten. Both of these gentlemen are pharmaceutical chemists, but have lately graduated at the University of Dundee, and may be remembered as having some years ago, jointly with Mr. Strachan, conducted evening classes in chemistry, materia medica, and botany for the benefit of the chemists' apprentices of the Granite City.

BIRMINGHAM.

Notes Written for THE CHEMIST AND DRUGGIST.

We are glad to say trade in the town among chemists during the past month has been on the increase. The cold weather gave an impetus to winter remedies, and it was with regret that the sales slackened, milder weather supervening.

We heard, on reliable authority, of a chemist in the suburbs having a prescription handed in at 9 P.M. which was urgently required, and had been ordered by one of our leading medical men. Not having the drug in stock, close upon twenty chemists were called upon for it. It could not be obtained. "Gone to water;" "Cannot find it;" "Do not keep it;" "Some on order;" were the replies given. The patient had to wait painfully and patiently until the following morning before the prescription could be dispensed. The drug was "zinci chloridi."

Morris Banks & Co. (the latest addition to the "cutters" here) are freely scattering about the villages surrounding Birmingham the second issue of their "Cash Drugs and Patents Price-list." It beats Hedges' and the Stores' price-lists entirely. One village, eight miles from Birmingham, is a fair distance to expect customers from.

The following is how a Birmingham "dentist" appeals to his customers in a handbill which he is profusely circulating in the neighbourhood:—"If you will call and make inquiries you can be supplied with references to 'old' patients and all other information, also receive advice upon *deceased* teeth and gums free. From 9 A.M. to 8 P.M. daily."

"Ten pounds reward will be paid for information which will lead to the detection of the person who supplied Emily Guy, late of 75 Crocketts Road, Handsworth, with a quantity of prussic acid, on or before the first day of October last. J. Sutton Sharpe, solicitor, West Bromwich."

The above advertisement appeared in a local daily paper.

TRADE CHANGES.—Mr. Smith, 86 Anderton Road, Sparksbrook, has disposed of his business to Mr. J. A. Davis.—The business carried on by Mr. Sumner (formerly Green), corner of Camp Hill and Coventry Road, Bordesley, has been purchased by Dr. A. L. Smith, D.D.S., F.C.D., &c., from the Queen's Hospital and Banks' Bull Ring.—Mr. R. Spencer, Hyson Green, Nottingham, and 193 High Street, West Bromwich, has purchased the business lately carried on by Mr. J. J. Horton, 39 High Street, West Bromwich.—Mr. J. J. Horton has for a time bidden farewell to the drug trade, and is now managing a jewellery business at West Bromwich.

SAD DEATH IN A CHEMIST'S SHOP.—On November 1 Mr. Richardson, precious-stone merchant, of Northampton Street, feeling faint on passing the shop of Mr. Herbert Pegg, chemist, corner of Ludgate Hill and Great Charles Street, went in and asked if he might rest for a short time. After resting for a few minutes, he fell forward and expired immediately. In consequence of being under medical treatment for heart disease no inquest was held.

The Annual Meeting of the Midland Counties Chemists' Association was held on October 29 at Burlington Chambers, New Street, at 8.30, for the election of officers for the coming year, and the transaction of other business. Most of the old

officers were re-elected, with the special exception of Mr. Thomas Barclay being chosen as President in place of Mr. Lucas, resigned. It is contemplated forming classes under the tuition of Messrs. Alcock, Perry, and Robinson. No decision was arrived at, it being left open till the social meeting, to which apprentices and assistants will be invited, to be held some evening in the course of the present month. A considerable number of the new price-list (a most useful one in many ways) has been sold. A new feature of the Association (which could be copied by other Associations) is the collection of debts for its members; out of 125 debts given to Messrs. Marris and Martin, 80 have been recovered in full, 24 still on the books, and 21 are bad; many of these debts had been given up as lost. The balance-sheets show that the Association is in a good condition financially, which is something to be thankful for in these hard times. It is the wish of the Council that members will endeavour to attend in good numbers future meetings, and assist in making the Association useful both to themselves and the trade at large.

At the West Bromwich Police Court, on October 11, Thomas Rainbridge (33), of Handsworth, was charged with stealing 2s. 6d., the money of his employer, Joseph Thomas Griffin, 139 Monument Road, Birmingham. Mr. Sharpe, who appeared for the prosecution, stated that prosecutor was a chemist who had a branch business in Grove Lane, Smethwick. The defendant went there three weeks ago as manager of the branch. Soon after that Mr. Griffin found that his takings fell off considerably, and he communicated with the police. On the previous day certain coins were marked and placed in the shop-till amounting to 7s. 6d. The prosecutor then left the premises, and some persons who had been instructed went to the shop and made purchases with marked coins. When the till was searched subsequently, there was found to be a deficiency of 2s. 6d. in the coins that had been placed there, while none of the money taken to the shop had been put into the till. Prisoner pleaded guilty to taking the half-crown, and, considering his previous good character, the Bench fined him 40s., and costs 20s. 6d., with the alternative of one month's imprisonment.

A well-known character has "gone over to the majority," who was known by most chemists in business, either from having business transactions with him or seeing his advertisements, which month by month appeared in the columns of *THE CHEMIST AND DRUGGIST*. We allude to the late Mr. Richard Tomlinson, chemists' shop-fitter, 15 St. Paul's Square, Manchester. Chemists will remember him whilst residing there acting in partnership with his brother in "Tomlinson Street." He has been amongst us here for the last twenty years, and there can be few shops in Birmingham and the suburbs where some of his handiwork cannot be shown. He quietly passed away on October 27, aged sixty-seven years. The last three or four years his constitution has been breaking, and two years ago paralysis set in, from which he never recovered. The business will still be carried on by his two sons, who have been attending to the practical part of the business for some time.

MIDLAND COUNTIES CHEMISTS ASSOCIATION.

The annual meeting of the above Association was held at their rooms, 23 Burlington Chambers, New Street, Birmingham, on Wednesday, October 29, when the report for the past year was received, fully discussed, and adopted.

The following were elected officers for the coming year:—Mr. Barclay, president; Messrs. Barlow and Perry, vice-presidents; Mr. Lucas, honorary treasurer; Mr. Thompson, honorary secretary; Mr. Wright, librarian; Messrs. Arblaster and Haydon, auditors.

Amongst the agenda of the newly-formed Council a proposition was unanimously carried to the effect that early in November a social evening should be held, at which the President would give an address, and opportunity be taken to learn from students and others as to the needs of the town for evening classes in pharmaceutical subjects, and adoption of such means as shall enable the Association to become a real benefit to the members generally. A grant of 10% was made for the purchase of new books, and, after voting monies to the treasurer for benevolent purposes and an honorarium to the librarian for his useful services, the meeting terminated.

BURSLEM.

ALLEGED FRAUD.—William Shirley (on bail) was indicted for obtaining by false pretences from Julius Levin on June 18, at Burslem, a quantity of sponges, of the value of 29½ 10s., the property of Isaac Lialter. Mr. Fisher prosecuted; Mr. Rose defended. Some of the facts were given last month. According to the prosecution, the prisoner went to Levin and said he had a commission to buy some sponges from him for his brother, who was manager of a large pottery. The sponges were delivered to prisoner, who afterwards wrote that his brother had received them. Subsequently, it was alleged that it was discovered that prisoner's brother knew nothing of the transaction, although he had purchased a small quantity of sponges from a man prisoner had sent to him with them. In fact, he was not on good terms with his brother. Levin then applied to prisoner for the goods or the money, and getting neither instituted the present proceedings. In defence it was contended that the transaction was one of ordinary sale, and that prisoner never said he was authorised to purchase on behalf of his brother. After several witnesses had been called on behalf of defendant to state that Levin told prisoner that if "he filled his window they were bound to sell," the jury acquitted the prisoner.

COLCHESTER.

A CHEMIST'S ASSISTANT AND HIS TESTIMONIALS.

At the Borough Magistrates' Court on October 25, before Messrs. Roberts & Kent, Mr. Edward Hammerton, chemist, High Street, Colchester, was summoned under the Masters and Servants Act by Walter Cockerton, chemist's assistant, who sought to recover 3l. 11s. 10d., being one week's salary, one week's salary in lieu of notice, and railway fare to London and back, the journey being undertaken, as he alleged, by his employer's orders.

The complainant said: I was engaged by Mr. Hammerton as his assistant. I was in his employ about two weeks and a half up to last Saturday. Previous to that I was employed in London. I did my duty to Mr. Hammerton all day on Saturday, when, to my surprise, he called me into the dining-room and said he was not satisfied with the reference he received as to my character. He said he had received a letter from Godalming stating that Mr. Andrews, who had given me my reference, was not in business for himself, but was merely managing man to Mr. Jonson. When I was employed by Mr. Andrews it was in London. Mr. Hammerton told me I might go to London if I liked to get further references. I said, "It is ten minutes to nine, and I should like to catch the quarter-past nine o'clock train." Mr. Hammerton went to the desk and paid me my week's money. I said, "What shall I do about London?" and he replied, "As you have to get references, you can be back as soon as you can on Monday." I did not arrive back until a quarter to nine on Monday evening. I was delayed in London because I could not see the minister whom I had known for twenty years. That is what I went to London for—to see the minister and get a reference.

The Clerk: That has nothing to do with the case.

Complainant: Oh yes it has.

The Clerk: It is not for you to advise the Bench. What occurred when you returned to Colchester on Monday night?

Complainant: Nothing at all. I went into the shop and told Mr. Hammerton I had come back and had brought two references. He immediately opened the door and said, "I don't want your services any longer."

Mr. Roberts: Without any further observations?

Complainant: Yes.

Mr. Roberts: And without seeing these references?

Complainant: Well, he certainly did handle the minister's letter, but I don't think he read two lines of it. He seemed quite out of temper.

Mr. Hammerton, in defence, said: Last Saturday night I took him into my dining-room and read a letter to him relating to his references, with which I was dissatisfied, and which he partially explained to me. We then went into the shop, as he wished to go to London; and at his own request I allowed him to go before his time, in order that he might catch the train at a quarter-past nine, on the distinct understanding that he was to be back at business by ten o'clock on

Monday morning; but I never saw him again till Monday night. He pushed the door open, came in, and said, "Will you read that reference?" I said, "No, I shall not trouble you any further; I have done with you," and I went and opened the door and asked him to walk out.

Charles Payne, another assistant to Mr. Hammerton, confirmed the evidence of the latter and the plaintiff, and Mr. Hammerton swore that he did not suggest that the plaintiff should go to London for references.

The Bench considered that the claim was not made out, and dismissed the case.

DUBLIN.

A CHEMISTS' CLUB.

A general meeting of the chemists and druggists of Dublin was held on Friday evening, November 7, at 87 Marlborough Street, for the purpose of forming a club in connection with the trade in the city. The chair was occupied by Mr. Henry Forwell, L.P.S.I., A.P.S.G.B. &c., and the meeting was well attended by some of the oldest and most influential men in the trade.

Mr. Hill was elected secretary to the meeting, and was asked to state what had been done at the previous meeting, held on October 15 last, and since. He said that at the last meeting it had been agreed to have papers printed and left at the several houses in the trade through Dublin, on which those gentlemen willing to become subscribers to the club might enter their names. He had not yet received all the papers, but he had got about fifty names, and felt quite confident that he could get many more. He stated that the general feeling of those in the business was in favour of the establishment of a club, and that it only required a number of energetic men to carry out the movement in a manner befitting the high standing of the trade in Dublin. He proposed that a club be formed "for the purpose of establishing reading-rooms, library, billiard-room, lectures, classes, debates, and any other matters which may tend to the social and educational improvement of the members of the trade." The proposition was seconded by Mr. Mothersill, and, after much discussion, which was taken part in by Messrs. Gardiner, Millar, Russell, Curhan, Prior, Batt, Reynolds, &c., was carried by acclamation. The following are the office-bearers who have been elected for the ensuing year:—President—C. R. C. Tiehborne, LL.D., &c., ex-president Pharmaceutical Society of Ireland, &c. Vice-Presidents—Henry Forewell, John A. Gardiner, William Hayes. Honorary Secretary—Edward McC. S. Hill. Honorary Treasurer—A. Morrison Millar. Committee—P. F. Baikie, T. Batt, S. Curhan, A. Patterson, W. Porter, W. J. Reynolds, J. Shirley.

Any information with regard to the above club will be willingly given by the hon. secretary, Mr. Edward McC. S. Hill, 27 Upper Clanbrassil Street, Dublin, or by any of the officers.

NARROW ESCAPE FROM POISONING.—The medical officer at Kileullen has reported to the Naas guardians that a firm of Dublin chemists have supplied a dangerous poison, instead of the medicine ordered for the dispensary patients. It was by the merest accident that the poison was detected, and its use would undoubtedly have proved fatal. These mistakes, it was stated, were not uncommon, but they were rarely exposed. The chairman and vice-chairman of the dispensary committee were nearly poisoned on this occasion. The Local Government Board has been asked to decide whether the chemists in question shall be prosecuted.

GRIMSBY.

CHARGE OF MURDER BY STARVATION.—On November 8, at the Notts and Lincoln Assizes, before Lord Chief Justice Coleridge, Charles Briggs, chemist, aged 39, and Elizabeth Briggs, 67, his mother, were indicted for the wilful murder of Thirza Briggs (wife of the first-named prisoner), at Clee, near Grimsby. It was alleged that the prisoners had starved the deceased, as, by a post-nuptial settlement, some property belonging to her would come to the male prisoner after the death of herself and daughter. His lordship, in summing up, said that, if the jury believed the prisoner had starved the deceased with the intention of killing her, they must find a verdict of wilful murder; and if this was done without inten-

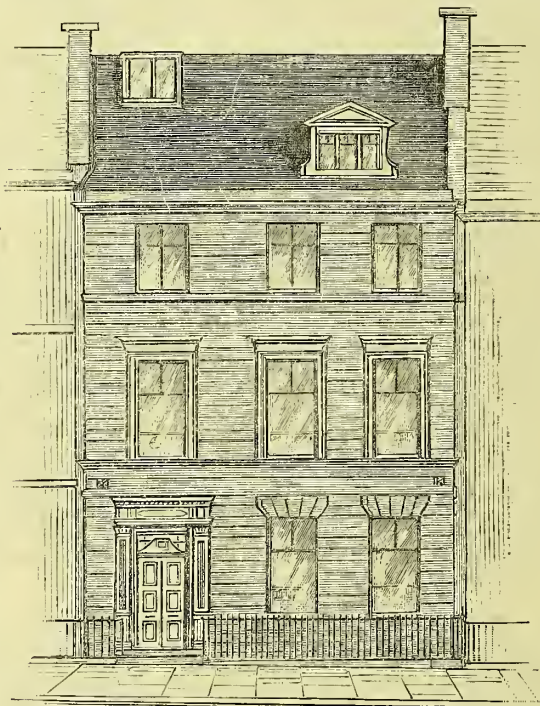
tion to shorten life, the jury must convict the prisoner of manslaughter. The facts were far from clear, and the question of responsibility was important. The jury, after fourteen minutes' deliberation, convicted the male prisoner of manslaughter and acquitted the female. Briggs was sentenced to twenty years' penal servitude.

EDINBURGH.

THE NEW PREMISES OF THE NORTH BRITISH BRANCH OF THE PHARMACEUTICAL SOCIETY.

During the past week there have been held some brilliant meetings to celebrate the opening of the premises which have been recently bought and adapted for the North British Branch of the Pharmaceutical Society. It is considered in Scotland that the Society has made a really good investment. The total cost for purchase and adaptation of the new premises, which are situated at 36 York Place, amounts to about 3,000*l.*, and for that excellent accommodation for examiners, council, and all the officials has been provided.

The premises, as now transformed, comprise museum, library, and secretary's room, with cloak-room and lavatory on ground floor; board-room, laboratory, and retiring-room on first floor; while on the third and fourth floors accommodation is provided for secretary's residence, and on the sunk floor are caretaker's residence, and spare rooms for unassorted specimens and museum stores. In the course of the altera-



NEW PREMISES OF THE NORTH BRITISH BRANCH OF THE PHARMACEUTICAL SOCIETY, AT 36 YORK PLACE, EDINBURGH.

tions the entrance lobby has been enlarged and improved by the introduction of a wainscot screen filled with tinted glass, and a handsome new entrance doorway, designed with fluted pilasters and richly-carved entablature, all executed in stone, with woodwork finishings in wainscot, has been substituted for the former entrance, which was found insufficient.

[Our sketch of the premises, printed above, ought to have shown the title of the Society on the window blinds, and a monogram plate on the door, which additions give a rather more official and less private appearance.]

The laboratory has been fitted up with all the most recent appliances required for the use of students in study or under examination, and special means have been contrived for introducing a constant supply of fresh air, and for carrying

off obnoxious fumes arising from the operations with chemicals. The board-room, also, has received careful consideration in the matter of ventilation, the means of entrance of fresh air and the exit of vitiated air being under separate and simple control. In the course of the alterations an entirely new system of drainage and plumber-work has been introduced throughout the building, based upon the most recent sanitary information. The official and private apartments have been entirely painted and decorated in a quiet but effective manner, with a pleasing result.

The alterations have been carried out by Messrs. Davidson & Chisholm, the painting being by Messrs. Mackay & Son, Dundee. The architect employed by the Council is Mr. Hippolyte J. Blane.

A committee, consisting of Messrs. Baildon, Gilmour, Nesbit, Stephenson, and Young, have made all the arrangements for the opening festivities, and it is considered that their labours have resulted in a perfect success.

On Wednesday evening, November 12, a dinner was held at the Royal Hotel, Edinburgh.

Mr. John Nesbit, President of the North British Branch, presided, with the Lord Provost of Edinburgh (Sir George Harrison), on his right, and the President of the Pharmaceutical Society, Mr. M. Carteighe, on his left.

Among the company present were:—

Profss. Crum Brown, F.R.S., T. R. Fraser, F.R.S., Grainger Stewart, Redwood, and Archer; Messrs. Atkins, Bottle, Butt, Hills, Richardson, Williams, Robbins, Bremridge, Paul, and Passmore; Drs. A. Napier (Glasgow University), Stevenson Macadam (Edinburgh), Angus Macdonald, Argyll Robertson, Smith, P.R.C.S.E., Peel Ritchie (Treasurer), R.C.P.E.), Hare (Senior President Royal Medical Society), James Dunsmure, and A. P. Aitkin; the Rev. Dr. Walter C. Smith; Messrs. P. Geddes, F.R.S.E., J. F. Mackay, W.S., H. J. Blanc, F.S.A. All the members of the Board of Examiners for Scotland. Messrs. J. R. Young, Daniel Frazer, and Borland; Provost Reid (Montrose); Messrs. Duncan (Rothesay), Ross (Galashiels), Murdoch and Forgie (Falkirk), McMillain, McAdam, and Foster (Glasgow), Heron, Noble, Dick, Ewing, Pinkerton, Laird, John Robertson, Kennedy, George Mackay, W. G. Mackay, &c. (Edinburgh), David Mackay (Dundee), W. L. Howie (Manchester), Harland (London), &c. Messrs. H. B. Baildon and John Borland acted as croupiers.

The dinner was successful in all respects.

The CHAIRMAN, in brief, neat speeches, proposed the usual loyal toasts, and "The Lord Provost, Magistrates, and Town Council of Edinburgh." The Lord Provost (Sir George Harrison), on rising to respond, was very heartily received. He claimed that Edinburgh was not only a great educational centre, but was also the healthiest large city in the kingdom, and the Council would always aim to keep it so by good sanitary arrangements. The "University of Edinburgh" was proposed by Mr. J. R. Young in an able speech, in which he showed the position which many of its professors had taken as leaders in the scientific world, and made special reference to Professor Crum Brown, the present occupant of Dr. Gregory's chair, and to his work, in connection with Dr. Fraser, on the mydriatic alkaloids.

Professor CRUM BROWN spoke of the aid which pharmacy had given to chemistry in the course of the history of the science. Chemistry grew from the two roots—pharmacy and metallurgy. It was the combination of the science underlying these arts that gave us modern chemistry. He was very pleased to see the position that pharmacy held in that city. Pharmacists had always occupied a prominent position in Edinburgh, both as scientific and commercial men, and he congratulated them on their new official home.

Mr. E. B. STEPHENSON proposed the "Royal College of Physicians and Surgeons," and in the course of his remarks touched upon the desirability of uniting pharmacists on the Pharmacopœia Committee.

Dr. PEEL RITCHIE, Treasurer of the College of Physicians, and Dr. SMITH, President of the College of Surgeons, replied.

The "Medical Profession" was proposed by Mr. S. R. ATKINS, who spoke of its noble history, and asserted that, in spite of occasional forays and wars, none were better fitted or more eager to propose such a toast than pharmacists, who, as a body, were loyal to the guild of the healing art, and could

recognise the heroism of the medical men in spreading their services over moorland, fen, and down; ready always to lend their aid, often without reward.

Professor GRAINGER STEWART responded.

Mr. WILLIAM GILMOUR proposed "The Clergy" in an appropriate speech, and the Rev. WALTER C. SMITH, D.D., very eloquently replied.

Professor T. R. FRASER proposed "The Pharmaceutical Society," which he considered had conferred great services on its own Associates, on the public generally, and on the medical profession. The arts of medicine and pharmacy must be practised separately to be practised efficiently. At one time smiths, weavers, and old women practised both; now it was found desirable to differentiate the branches, giving surgery to surgeons, medicine to physicians, and pharmacy to the pharmacists. He spoke of the great work done by Jacob Bell in the educational reform of pharmacy, and highly complimented the present President, Mr. Carteighe, whose name he coupled with the toast.

Mr. CARTEIGHE, in reply, sketched the history of the Society and of the Scotch branch.

The "Scottish Pharmacists" were proposed by Prof. REDWOOD and replied for by Mr. DANIEL FRAZER. Mr. H. B. BAILDON proposed "The Guests," for whom Mr. JOHN WILLIAMS responded. "The Chairman and the Croupiers," were toasted; and lastly Dr. PAUL proposed "Success to the North British Branch," to which Mr. P. MACEWAN, Secretary, replied.

At the conversazione held the next evening most of the dinner guests and many others were present. It was regretted that for want of space ladies could not be invited. The attractions included a programme of music by Mr. Laubach's string band. In the laboratory and museum microscopic objects were exhibited, and many objects of interest were lent for the occasion. Refreshments, not exclusively of the temperance order, were provided in the library.

EDINBURGH CHEMISTS' ASSISTANTS' AND APPRENTICES' ASSOCIATION.

ADDRESS BY THE PRESIDENT.

This Association began its seventh session on the evening of October 24, when the President (Mr. W. Scott Turnbull), delivered the inaugural address, which consisted of "a general survey of one or two inconsistencies associated with the everyday work" of the average chemist and druggist. Searching for "the model pharmacist," the President looked for him in "a position equidistant between 'the doctor's boy in buttons' and the fully-equipped professor," but found him not; for, on taking a peep into his sanetum sanctorum, it would be found that he was not altogether a pharmacist, but a drysalter, a grocer, a perfumer, a physician, and, alas! too often a commission agent. Such a state of things, the President argued, could not fail to bring about the pharmacist's present disorganised finances. Although he, in the first instance, assimilated some of the sustenance which rightly belonged to his associates, they latterly have learnt how to recoup themselves, and with interest. Cast off, therefore, the encumbrances which are no more profitable to thee! Perfumes may be got at the stores, soap from the grocer, and patents anywhere. And why should the pharmacist prescribe? Owing to his superficial knowledge of disease, his diagnosis must be of a speculating nature, and, besides being unsatisfactory to himself, it does not enhance his reputation even as a pharmacist. "Better to begin with the first lesson of knowing and doing well what we do know, and knowing and eschewing what we do not know;" consequently, *do not prescribe*—you are invading the field of the physician while you should be cultivating his patronage. The President next proceeded to speak of the evil of specialties, remarking that it was not special manufactures of such articles as morphia, chloroform, or quinine that he took exception to; "but those insidious proprietary articles prepared in the inner room, the door of which is marked 'strictly private,'" which he took exception to. No doubt many of them came from abroad, most of them, he thought, from America; but the ravages which they made on legitimate pharmacy in that country ought to warn us here to be on our guard in trifling with this system. In

giving encouragement to the sale of these preparations, we are actually playing into the hands of our neighbours, the grocers, and "the quiet tenour of our life is incompatible with the haphazard and go-ahead system of trading of the present day," while, on the other hand, "if we devote our life to the service of science, we may, in the words of an eminent Scotch pharmacist, 'die in the odour of pharmaceutical sanctity,' and over our tomb may be written these words, able to draw the sympathetic tear from the passer-by, 'Born to be a man: died a chemist.'" Mr. Turnbull went on to show that the specialty craze is an increasing evil: it puts money in the pocket of the individual (that is, the manufacturer) which would satisfy the wants of the class (or the pharmacists), and, moreover, it favours the invasion of the pharmaceutical territory by the ordinary shop-keeper. The ever-present subjects, "long hours" and "pharmaceutical legislation," were then spoken of in a very entertaining manner, and Mr. Turnbull concluded a very scholarly address by exhorting young pharmacists to be united, and recommended them, as a means to this end, to join the Pharmaceutical Society, the only union in the drug trade which had strengthened with years, and which, he thought, was an institution "which would defend its members when threatened by injustice, succour them in the hour of adversity, and extend to them a helping hand when brought face to face with poverty." On the motion of the Vice-President (Mr. J. R. Hill), a hearty vote of thanks was accorded to the President, and thereafter the Association had the privilege of hearing words of wisdom from several veteran pharmacists, including Messrs. Gilmour, Mackenzie, Napier, Stephenson, and Young. Dr. Inglis Clark also addressed the meeting. Thereafter the members themselves discussed the subjects which were embodied in the address, and the meeting (which was largely attended) concluded with the usual formal business.

PROSECUTION UNDER THE DENTISTS ACT.—In the Sheriff Court, on October 25, William Robertson, 28 Ranelagh Street, was charged at the instance of William Bowman Macleod, Licentiate in Dental Surgery (with the consent and concurrence of the Scotch branch of the Medical Council), with having committed three separate contraventions of the Dentists Act of 1878—in effect, with having publicly practised as a dentist without having been registered under that Act. In the first place, it was alleged that, without being registered, he published and issued a circular containing a description implying that he was duly registered; the second allegation had reference to the use of the word "Dentist" on the brass plate in front of his house; and the third charge pointed to his insertion of an advertisement in an Edinburgh newspaper, also implying, it was said, that he was registered. The accused pleaded guilty, and, in the course of a statement by which he followed up that plea, said the prosecution was "a piece of pure malice." He had received threatening letters from different members of the profession, and ten months ago Mr. Macleod, who now prosecuted him, offered him 400*l.* to leave the town—and Scotland, too, for that matter. It was his success in practice that had drawn this prosecution upon him. The Sheriff said he had nothing to do with the motives which had prompted the prosecution. Sufficient for him that the complaint was presented by a person who was entitled to insist in it. Mr. R. U. Strachan, advocate for the petitioner, pointed out that it was absolutely necessary that such a system as the accused had carried on should be put down, in the interests of qualified practitioners and in the interests of the public. In justice to their students, too, who were paying high fees in schools established at great expense, this prosecution was imperative. If this sort of thing was allowed to go on, the result would be that the Act would be entirely frustrated, and both the public and practitioners would be subjected to very great hardships. This was a case, he submitted, in which a substantial penalty should be inflicted. The Sheriff imposed a penalty of 5*l.*, with the alternative of seven days' imprisonment. The penalty in which the accused was liable was stated to be 20*l.*, or three months' imprisonment. Subsequently the defendant sent sandwich men around Edinburgh bearing placards, announcing that he had no connection with the British Dental Association, and that he should continue to extract and supply teeth.

KINGSBRIDGE.

A CHEMIST'S APPRENTICE KILLED BY MAKING "RED FIRE."

A calamitous accident occurred in the shop of Mr. Joseph Balkwill, chemist, Kingsbridge, on October 30. He and his apprentice, Edward Harris Crimp, aged 17, were preparing the ingredients for some "red fire," when, during Mr. Balkwill's momentary absence, an explosion occurred which caused the death of the apprentice. Mr. Balkwill's evidence at the adjourned inquest on November 6 will explain the circumstances.

Mr. S. Hacker was the coroner, and Mr. Square, solicitor, watched the proceedings on behalf of Mr. Balkwill.

Mr. Joseph Balkwill stated that on October 30 his junior apprentice, Edward Crimp, and himself were making "red light" in witness's chemist's shop in Fore Street, Kingsbridge. The component parts of the mixture were nitrate of strontia, 10; chlorate of potash, 3; shellac, 1; sulphur, 2; and charcoal, $\frac{1}{2}$. It was between five and six o'clock when they commenced mixing these articles, and he cautioned the deceased that certain parts when put together were explosive, and further told him that he (witness) would put the powders into the mortar in the order in which they should come. While the nitrate of strontia was drying in the oven deceased proceeded to powder the chlorate of potash in an iron mortar with an iron pestle. Witness meanwhile was weighing the other ingredients. Witness placed the sulphur on a piece of paper behind the dispensing-screen, there being a piece of mahogany about 2 feet high between the deceased and the sulphur. He did not tell the deceased he had so placed the sulphur, and there was nothing to indicate that the apprentice noticed him do so. He then went towards the kitchen to get the nitrate of strontia. Witness stopped at the door leading to the kitchen for about two minutes talking to his wife, and then the explosion occurred. He ran out of the side door and into the front door of the shop, and called on Frank Horsman, a former shopboy of his, who happened to be on the premises. Horsman answered, but Crimp he could not find. Mrs. Balkwill, witness's little child, and an errand boy were also in the shop at the time of the occurrence. When the explosion took place witness came to the conclusion at once that deceased had mixed the sulphur with the chlorate of potash. The shop was obscured and in darkness when he reached it. He called to deceased, and he replied, "Here I am, sir." Witness carried him to the centre of the shop and saw at once that he was fatally injured. Crimp was afterwards carried into the house and there died, Dr. Webb having previously been sent for. When witness went round the shop shortly after the explosion he did not see the sulphur. They intended making 2 lbs. $\frac{1}{2}$ oz. of "red fire." Witness had no licence from the local authority for manufacturing explosives.

The Coroner: Have you a licence from the Home Secretary?

Mr. Square thought the question was rather asking Mr. Balkwill to criminate himself.

By Mr. Square: He never for a moment intended deceased to put the sulphur in the mortar.

By the Inspector: Crimp had been his apprentice for seven or eight months. The "red fire" was for the use of the apprentices, and was their "perquisite." It was usual for them to have it at this time of the year. They generally made it themselves with witness's consent, and used it for illuminating the streets as a sort of fireworks.

By the Jury: It had been an annual custom for the apprentices to make this "red fire."

A Juror: Have you ever made "red fire" and sold it?

Mr. Square objected to the question.

Francis Horsman, a former errand-boy of Mr. Balkwill's, stated that when he was in the shop on the 30th he saw Mr. Balkwill weigh the sulphur, and put it behind the dispensary screen. He did not hear Mr. Balkwill say anything. Witness was standing in the passage leading to the inner shop when the explosion occurred. From this point the witness corroborated Mr. Balkwill's evidence.

By the Inspector: Witness had been an errand-boy for four years with Mr. Balkwill. It was customary at this time

of the year for the apprentices to make "red fire" for their own use. He had seen it sold sometimes by the apprentices in the shop. Could not say that he had ever seen Mr. Balkwill sell any. If anyone wanted, say twopennyworth, of "red fire" at this time of the year they could buy it at Mr. Balkwill's shop.

William Gunn, shop boy with Mr. Balkwill, also gave evidence.

Mr. W. H. Webb, surgeon, stated that on the day of the explosion he received a message to go to Mr. Balkwill's. He there saw Edward Crimp. He found the deceased's injuries so extensive that they admitted of no treatment, and he remained with the boy until he died, about twenty minutes or half an hour afterwards. Deceased made no statement.

Major Cundill, being sworn, stated that Mr. Balkwill did not hold a licence from the Home Secretary to manufacture explosives. Chlorate of potash and sulphur were largely used in the manufacture of fireworks. By themselves those substances came within the fulminate class.

By Mr. Square: He gave Mr. Balkwill the usual warning when he called upon him that day, but Mr. Balkwill, as far as he knew, concealed nothing.

Mr. Dore, ex-superintendent of police and inspector of explosives appointed by the local authority, stated that Mr. Balkwill held no licence for manufacturing explosives.

By the Jury: He had seen squibs and rockets and other things about the town on every 5th of November, but he had never inquired where they came from, and had never warned the druggists against making them.

The Foreman thought this showed some neglect of duty on the part of the local inspector.

The Coroner, in summing up, explained that if, by the commission of an illegal act, a person's death was caused, the person committing that illegal act was technically guilty of manslaughter by the law of England. It was for them to apply that principle to the facts before them. As an illustration of what he meant, he might recite a well-known case. A man was shooting his neighbour's poultry, and while he was so doing an accident occurred which resulted in the death of a third party. The shooting of the neighbour's poultry was an illegal act, and upon the principle he had stated the man firing the gun was guilty of manslaughter. It was for them to say, also, from the evidence whether anyone had been guilty of negligence, and whether that negligence amounted to culpability or criminality. The Act relating to the manufacture of explosives—which Mr. Hacker quoted—defined explosives among other things, to be "coloured fires and every other substance used to produce explosion or pyrotechnic effect." Taking that definition, they could come to no other conclusion than that Mr. Balkwill, in manufacturing this "red fire," was manufacturing an explosive, and the 4th section of that Act stated that the manufacture of such explosives should not be carried on except at places lawfully existing or licensed for the same under that Act. They heard that Mr. Balkwill had no licence from either authority by which such licences were issued, and they would probably come to the conclusion that in making this "red light" he was committing an illegal act. Mr. Balkwill—they would all recognise—had given his evidence very fairly and very clearly, and they would notice the precautions he adopted and the caution he gave to the deceased. Mr. Hacker then briefly ran through the chief points in the evidence, and, in conclusion, said:—"You can, I think, come to no other decision than that the deceased met his death as a direct consequence of the making and mixing of these explosives, and the making of these explosives being an illegal act, I am afraid, gentlemen, you can do no other than return a verdict of 'manslaughter.'"

The jury then retired, and after about half-an-hour's consultation the foreman handed to the Coroner a written verdict, in arriving at which he said they had been unanimous. It ran:—"The jury find that the deceased, Edward Harris Crimp, met his death by the explosion of chemicals, which explosion was caused by inadvertence in his employer's shop."

The Coroner: Then you mean by that that the death was accidental?

A Juror: It amounts to that.

The verdict was then recorded, and the proceedings terminated.

LIVERPOOL.

THE LIVERPOOL CHEMISTS' ASSOCIATION.

The second general meeting of the Association was held at the Royal Institution on October 23, presided over by Mr. Edward Davies, F.C.S. After transacting the preliminary business, Mr. Thomas Williams read a paper on

"SANITATION."

The author gave a brief outline of the requirements of sanitation, making special reference to the improved water-supply and the better drainage of our towns which have been brought about during recent years. But, with all this skill and all these costly improvements, the undeniable fact still remained that the death-rate of the kingdom is fully one-third greater than it should be, and that the general sanitary arrangements were provocative of disease instead of being preventive. It was stated on the experience of sanitarians that there were not in the metropolis 500 houses properly and safely drained, and they might go further and say that there were not 500 houses in the kingdom safely drained; and also that, to a great extent, the millions spent on the vast sewerage schemes had been literally thrown into the gutter and thence into the sewer. In all these great schemes, whatever the object had been, the effect was to make sewer-gas, and thus poison the people. The first principles of sanitation had been wilfully neglected—namely, the prevention of decomposition or fermentation. The result of decomposition was sewer-gas and germ development. Whilst the fermentation was going on zymotic or germ development was caused, and pre-existing germs became active organisms. Professor Tyndal calculated that germs equal to the population of the world could be placed on 4 square inches, and that one million could be piled on the head of a pin. They thus found that their tens of thousands of miles of sewers and drains were forcing-houses for germ development. Gas laden with myriads of germs in a more or less active condition was continually being generated, and ever ready to attack the weak and ailing. It was generally supposed that the water-traps attached to water-closets, &c., were a perfect seal against back-pressure of noxious vapours from the sewer, but if they thought for one moment the fallacy would be apparent. The depth of water in ordinary traps is some 6 inches, and, the atmospheric pressure being sufficient to balance a column of water 34 feet, it was self-evident that an increase of pressure in the sewers of only 3 oz. per square inch would overcome the 6 inches of water in the trap, and that, as at present arranged, they were only a delusion and a snare. Having referred to several recent schemes of sanitation, the lecturer then said that what we must look to in any case was the prevention of decomposition, and the application of antiseptics in our houses before the kitchen refuse and the excreta from our water-closets passed into the sewers. By this means the enormous amount of sewage matter daily discharged into our sewers would be thoroughly disinfected.

At the close a discussion took place, in which the President and Messrs. T. F. Abraham, Dr. Symes, M. Conroy, and A. C. Abraham joined. A hearty vote of thanks was accorded to the author.

The third general meeting was held on November 6, Mr. Edward Davies, F.C.S., F.I.C., President, in the chair. After the preliminary business, the President called upon Mr. J. S. Ward to read the paper for the evening on guaiacum resin, which is printed below.

PRELIMINARY ANALYSIS OF GUAIAECUM RESIN.

BY JOHN S. WARD.

For this purpose three specimens from different sources were taken. No. 1. A sample of *guaiacum in lachrymis*, kindly forwarded to me some two or three years ago by Messrs. Barron, Harveys & Co., of London. No. 2. A sample of *guaiacum in massis*, bought from Messrs. Evans, Sons & Co., of this city, in the ordinary course of business, and which I regard as a good specimen of the best commercial guaiacum in mass. No. 3 was another portion of the old guaiacum resin, that I had the pleasure of drawing your attention to at a previous meeting.

The mode of treatment adopted was first to ascertain the proportions soluble in the following menstrua, viz., petroleum spirit, rectified spirit 60 per cent., ether (B.P.), and water, then to discover the amount of moisture and ash, and lastly, to take the specific gravity of each. The results were:—

	S.V.R. 60 per Cent.	Ether (B.P.)	Water	Specific Gravity	Moisture	Ash
	PerCent.	PerCent.	PerCent.	PerCent.	PerCent.	PerCent.
No. 1	96.22	88.89	3.00	2.30	.587	.299
No. 2	92.96	89.91	3.23	2.23	.688	.334
No. 3	87.28	84.12	4.66	2.40	1.965	6.55

Petroleum spirit had no solvent action upon either of them. The percentage of ash in No. 3 is so much larger than in Nos. 1 and 2, that it indicated earthy matter as an impurity.

The spirituous, ethereal, and watery extracts were then respectively examined. The first two were subjected to the solvent action of the following menstrua, viz. S.V.R. 60 per cent., ether (B.P.), chloroform, glacial acetic acid, liquor potassæ, and liq. ammon. fort. with the following results (*vide* Table).

The watery extract after weighing was redissolved and tested with solutions of plumbic acetate, baric chloride, calcic chloride, and ammonic oxalate, with the results shown in following table:—

Spirituous Extract	Spirit	Ether	Chloroform	Glacial Acetic Acid	Liq. Potassæ	Liq. Ammon. Fort.
No. 1	Soluble	Nearly soluble	Partly soluble	Soluble	Soluble	Partly soluble
No. 2	Soluble	Not quite so soluble as No. 1	Partly soluble	Soluble	Soluble	Partly soluble
No. 3	Soluble	Like No. 2	Not quite so soluble as Nos. 1 and 2	Soluble	Soluble	Partly soluble

Ethereal Extract	Spirit	Ether	Chloroform	Glacial Acetic Acid	Liq. Potassæ	Liq. Ammon. Fort.
No. 1	Nearly soluble	Soluble	Partly soluble	Soluble	Soluble	Partly soluble
No. 2	Nearly soluble	Soluble	Partly soluble	Soluble	Soluble	Partly soluble
No. 3	Partly soluble	Soluble	Nearly soluble	Nearly soluble	Nearly soluble	Partly soluble

Watery Extract	Solution of Plumbic Acetate	Solution of Baric Chloride	Solution of Calcic Chloride	Solution of Ammonic Oxalate
No. 1	Gelatinous precipitate	Very slight precipitate	No precipitate	Fair precipitate
No. 2	Gelatinous precipitate	Slight precipitate	No precipitate	Good precipitate
No. 3	Gelatinous precipitate (more copious)	Slight precipitate	No precipitate	Copious precipitate

The reactions with plumbic acetate clearly indicate the presence of a gum, and at the same time prove that it is not arabic; whilst the precipitates with $\text{Am}_2\text{C}_2\text{O}_4$ being insoluble in acetic acid, but readily soluble in HCl , prove the presence of lime, which I have every reason to believe constitutes the basic portion of the gummy substance.

The chloroformic and ammonic solutions of both the spirituous and ethereal extracts of all three samples were filtered, and the clear solutions, together with the spirituous, ethereal, acetic, and potassic solutions of the two extracts were then tried respectively with the following oxidising agents, viz. ClBr , HNO_3 , and a mixture of K_2CrO_4 , CrO_3 + H_2SO_4 . They afforded the characteristic colour reactions; whilst the portions insoluble in chloroform and ammonia, after well washing with the same liquids and dissolving in spirit, failed to give those reactions, except in the case of chloroform, which gave faint indications.

The ash from Nos. 2 and 3 (No. 1 being lost) were then subjected to a qualitative analysis with the following results:—

Ash	Soluble in H_2O	Soluble in HCl	Insoluble
No. 2	Calcic sulphate	Calcic carbonate	Silica
No. 3	{ Calcic sulphate (very little)	{ Calcic carbonate Ferric oxide Aluminic oxide	{ Silica Alumina

In the discussion which followed, the President, Messrs. A. C. Abraham and Conroy took part, and a hearty vote of thanks was awarded the author for his valuable and interesting paper.

OTHER LIVERPOOL NEWS.

A strange and sad accident occurred on October 25 at Runcorn. A foreman of the Runcorn Soap and Alkali Works opened a door of a chamber filled with chlorine. He found himself being overpowered by the gas, and rushed away, leaving the door open. The fumes spread in all directions, and filled the cabin of a flat moored close by, where a flatman was sleeping with his wife and two children. He was roused by the fumes, and found his wife and children choking. Although he removed them at once, the children died in a few minutes, and the mother was dangerously ill.

At St. Helens an exemplary penalty has been inflicted on Thos. Woods, a publican, for selling rum diluted below the legal standard. He had previously been fined 10*l.* 16*s.* for a similar offence, and on September 30 two officers went to his house for a quart of whisky and a quart of rum. When he

was measuring out the second quart he exclaimed, "Hullo! are you going to do me again as you did me before?" The whisky was found to be all right, but the rum was 45° under proof—20° more than the law allows. He was fined 15*l.*, on which he exclaimed, "Oh, dear me!" "Yes," said the chairman, "we are obliged to inflict punishment to prevent you committing these offences."

"The best coffee," at 1*s.* 6*d.* and 1*s.* 4*d.* a pound, sold at two shops at Birkenhead, turned out to be coffee with 10 per cent. of chicory in one case, and 30 per cent. in the other. The defendant in the first case was fined 20*s.* and 16*s.* costs; in the second, 40*s.* and 16*s.* costs.

A stupid man named Sullivan sat up all night on November 3 that he might win a drink by being the first to call a fellow-scavenger named Cunningham. He went to the latter's house at 4 o'clock in the morning, and, besides getting the promised whisky, he pocketed a bottle of carbolic acid,

thinking it was spirits. He gave a drink to a friend, and, before the latter could spit it out and say what it was, himself swallowed some of it. He soon became insensible, and died the same morning.

A melancholy death from misadventure occurred in Liverpool on October 26. Mrs. C. L. Stewart, wife of a dental surgeon, was found dead in her bed, with an 8-oz. chloroform-bottle close by, and the pillow saturated with chloroform. She had been in the habit of sniffing chloroform from a bottle to relieve neuralgia and sleeplessness. On the previous night she had sent a servant for a bottle of chloroform to Messrs. Symes & Co., Hardman Street, but her husband found it in the bedroom partly empty, and gave it to the servant to hide. Next morning the deceased sent another servant, with a card, for more chloroform, to Messrs. Clay & Abraham's shop in Bold Street. Later on she was found dead by her husband. It was supposed that, becoming unconscious, she was unable to replace the stopper, the chloroform flowed over the pillow, and the continuous inhalation caused death. For nearly an hour efforts were made to revive her.

LEEDS.

LEEDS CHEMISTS' ASSOCIATION.

The annual meeting of this association was held at the Church Institute, on October 9, at 3 p.m. Mr. Samuel Taylor, President, in the chair.

The report, which was accepted, stated that to meet a requirement of pharmaceutical students, which was not supplied by any of the educational institutions of Leeds, the Council had made arrangements with Mr. W. Elborne, Owens College, Manchester, to deliver a course of evening lectures on the *materia medica* of the British Pharmacopoeia. A hope was expressed that the associates would appreciate so valuable an opportunity, and that the lectures would be heartily supported.

The following officers were elected:—President, Mr. George Ward, F.C.S.; Vice-President, Mr. James Abbott; Honorary Treasurer, Mr. James A. Hirst; Honorary Secretary, Mr. F. W. Branson; other members of Council, Messrs. J. Boocock, E. O. Brown, P. Jefferson, S. Taylor, Wm. Smeeton, E. Yewdall; Messrs. W. Powell and E. Brown were appointed Auditors; Curator, Mr. Rushton; Librarian, Mr. Pollitt.

The annual supper and first ordinary meeting of the session took place on October 16, Mr. George Ward, F.C.S., President, in the chair. Thirty-five members and their friends were present.

Letters were read from Messrs. R. Reynolds and W. Smeeton, regretting unavoidable absence.

After the confirmation of the minutes, the President gave the

INAUGURAL ADDRESS.

Commencing with reference to the more noticeable events in the history of Pharmacy (as related in the work of Messrs. Bell and Redwood) from the year 1511 to the granting of the charter of incorporation to the Pharmaceutical Society in 1843, since which time the Society has pursued a steady course of progress in seeking to advance pharmaceutical education and to raise the status of the trade. In continuing his remarks, the speaker observed that the Association was a chemists' association, and desired to draw special attention to the fact that the members were expected to be chemists and druggists, that is to say, there was clearly a twofold character in their calling, whether it was designated by the older and more familiar title of chemist and druggist, or the more modern and high-sounding one of pharmacist. The twofold character—the scientific and the commercial—should always be borne in mind. The province of the chemist and druggist was one of considerable extent, and for the correct performance of his duties there was required a very considerable amount of technical skill and scientific knowledge in chemistry, botany, and *materia medica*; he must not only be a tradesman, with very much more of detail, anxiety, and responsibility than most other traders, but he must be also a more or less scientific man, and it would only be when both sides of his qualifications were developed that he would in the future be able to take the position which was properly his due. He especially urged upon his young friends the absolute necessity for remembering this two-fold nature of

their calling, lest they should sink to the level of a mere dealer. But what about the remuneration? what encouragement is there to seek to acquire these qualifications? He was at once ready to admit that at present and for some time past the trade had been "under a cloud;" keen competition and the want of a proper amount of protection, combined with other circumstances, had brought about a condition of affairs, which, to say the least, was not at all satisfactory. There were already indications of a tendency in the trade to divide into two classes,—the properly qualified pharmacist on one side, and the mere dealer in non-poisonous drugs on the other. And they would doubtless most of them be ready to admit that an amended Pharmacy Act was much needed. In the meantime he would certainly advise those entering the trade to qualify for the higher position, resting assured that only special knowledge and special skill would entitle them to special protection and advantages. Into the much vexed problem of prices—just now a burning question—Mr. Ward said he would not enter, but those who were already in the business could not afford to allow their trade to pass out of their hands, and must modify their proceedings to meet the requirements of the times. There was one other subject which might be mentioned in passing, but about which they would doubtless be all agreed, viz., the claims of the chemist and druggist to be officially represented on the committee for the revision of the Pharmacopoeia. The practical pharmacist had special opportunities for observing the alterations required in the processes adopted for the compounding of drugs and of testing the purity and fitness of the various substances used by the medical man, and had, therefore, special claims to have a voice in the work and revision of the national pharmacopoeia. A passing word might be said as to the curriculum and examination recently proposed by the Council. He thought one could scarcely avoid the opinion that for the present the scheme as proposed was too pretentious for the circumstances of by far the majority of chemists and druggists' assistants throughout the provinces; a graduated series of examinations, to be taken year by year, during the whole of the term of apprenticeship, would very much better meet the want of pharmaceutical students generally, and would tend to prevent the final few months of rapid preparation which is so frequently relied on for the qualifying examination, and would make ultimate success more certain. Another matter that had occupied the thought of some members of the trade was the abolition of the patent medicine stamp, and it might be hoped that this subject was fast coming "within the range of practical politics." Mr. Ward then drew attention to the slides under a number of microscopes illustrative of micro-organisms which accompany specific diseases, and suggested that it would be well to study, as time and opportunity occur, the recent researches by Pasteur, Koch, Klein, and others, as to the history of these minute organisms and their relation to zymotic diseases. The speaker concluded his address by impressing upon the assistants present the necessity for association and mutual help. Only by persevering in the pursuits of knowledge for its own sake would the position to which doubtless all aspired be attained, and to consummate this aspiration he suggested that a students' association should be formed, and that the resources of the library, museum, and reading-room should be pressed into the service of the proposed association.

A vote of thanks to the president was moved by Mr. S. Taylor, seconded by Mr. E. Yewdall, supported by Mr. R. Smales, M.R.C.S., and carried unanimously.

It was announced that fifteen entries had been received for the *materia medica* lectures.

GREY POWDER.—Mr. H. Cookson, F.R.C.S., Surgeon-Major, Indian Army, retired, writes in the *Lancet* that twenty years ago he called attention in the *Indian Medical Gazette* to the tendency of the mercury in grey powder to assume the dangerous form of red oxide, and especially in a warm climate. He finds, as a matter of experiment, that mercury with magnesia is perfectly stable, provided pure mercury be used and no other ingredient added to the magnesia carbonate to expedite the minute division of the mercury, which must be effected by long-continued trituration; it is immaterial whether the light or heavy form of magnesia carbonate be used. Mr. Cookson adds that blue pill in suspension can be most conveniently given to infants.

PHARMACY IN AUSTRALIA.

(FROM OUR OWN CORRESPONDENT.)

MELBOURNE, VICTORIA, September 19.

IN a former letter I mentioned that Mr. Quong Tait, a Chinese merchant of Sydney, was endeavouring to secure the unanimous prohibition by all the colonies of the importation of opium except when intended for medical purposes. At present the duty charged on opium is 20s. per lb; and this might have been thought sufficient to impose a powerful check on its general use. Experience has shown, however, that it is not the case. The large profits to be made by the duty has led to a good deal of smuggling by the Chinese.

When the last census returns were prepared there were in the colony of Victoria 12,128 Chinese, and about one-tenth of this number were domiciled in and about Melbourne.

The great majority of them are congregated in the dens and rights of ways along and off Little Bourke Street, known as the Chinese quarter. With these are associated a number of European women—the lowest grade of the “unfortunate” class—many of whom have been brought to their present condition solely through the absorbing love for opium. The city police and members of the detective force are good authorities as to the extent to which opium-smoking is carried on, and their opinion is that the use of the drug amongst the Chinese in Melbourne is almost universal. The matter has, however, assumed such an alarming aspect that Parliament have decided to ask the Pharmacy Board to prosecute the Chinese under the Sale and Use of Poisons Act.

The Pharmacy Board hitherto have not been treated well by the Government, having repeatedly pointed out the advisability of passing an amended Poisons Act to deal with the Chinese opium difficulty.

To give some idea of the demand for opium it may be stated that during the year 1882 opium to the value of 77,087*l.* was imported, while 11,079*l.* worth was sent out of the colony, presumably to other parts of Australia. Of late years opium-growing has been attempted on a small scale in this colony, where the poppies grow luxuriantly.

At a certain period in their growth the large seed-pods are slashed with a knife, and the juice oozing out trickles down in long tears that dry in the sunshine as they emerge. This, in its unprepared state, is the opium so dearly loved by the Chinese and their associates.

I understand the Pharmacy Board are now engaged in obtaining evidence, and that a number of cases in different parts of the colony will shortly be brought forward.

Some extensive frauds in connection with the manufacture of the article known as American Hop Bitters have recently been brought to light. It appears that two men, Julius Lewis and Maurice Ickersen, have been making up in the company's bottles a spurious article, and putting imitation capsules and marks on the bottles and cases.

Lewis sold to several wholesale grocers lots of twenty cases each at a great reduction, saying he had them on lien. Suspecting all was not right, the firms communicated with the agent and manager of the company here, who, after inspection, pronounced the cases not genuine, and a warrant was issued against Lewis for obtaining money under false pretences, and a summons taken out against Ickersen for an infringement of the Trade-marks Statute.

Lewis bolted to Sydney, where he was arrested a few days ago, and Ickersen was prosecuted and fined 20*l.* and 5*l.* costs.

The quarterly examinations of the Pharmacy Board were held the first week in this month. There were thirty-two candidates in all for examination. The examiner for the Preliminary examination, in his report, says:—“This is by far the best result I have had. The general quality of the work shows a marked improvement.”

The weakest students appear to be those who were examined in practical pharmacy; out of seven candidates who presented themselves, only two passing.

I am glad to see Victoria again to the front in the British Pharmaceutical Conference. I understand that there are at least fifty new members from this colony this year.

I have nothing of interest to report from New South Wales or New Zealand. Business, I hear, is exceedingly dull, and

this state of things is not likely to be improved by the prospect of a very bad season.

In the Journal and Proceedings of the Royal Society of New South Wales for 1883, edited by Professor Liversidge, Mr. E. Palmer contributes a descriptive catalogue of 72 plants used for food, of 16 used for medicine and fish poisons, and of 18 employed for manufactures and implements, by the natives of North Queensland, Flinders, and Mitchell Rivers. Those which the experience of centuries has proved to be efficacious for the treatment of ailments by the Blacks might be worth the attention of pharmacists. Among the miscellaneous papers in the present volume two will be found deserving of special attention—one by Dr. Manning, Inspector-General of the Insane, on the granting of medical certificates of insanity; and the other by Dr. C. K. Mackellar, Health Officer to the Government, on the question of federal quarantine.

Mr. A. P. Miller, of Hobart, should be satisfied with the result of his perfumery exhibit at Calcutta. The Tasmanian Commissioner, in his letter announcing the award of a first-class certificate and silver medal for “Tasma,” says:—“The Marchioness of Ripon and Lady Elizabeth Taylor were greatly pleased with it.”

COLLEGE OF PHARMACY.

A deputation of members of the Pharmaceutical Society, namely, Messrs. C. R. Blackett (President of the Pharmacy Board), T. Huntsman (President of the Society), W. Bowen (ex-President), and Harry Shillinglaw (Honorary Secretary), waited on the Chief Secretary, on September 10, to request that assistance might be granted to the College of Pharmacy.

Mr. C. R. Blackett explained that the Pharmacy Act rendered it imperative that students in chemistry should attend certain lectures. The Society had already spent 2,000*l.* on the College of Pharmacy, and they required assistance to carry it on more efficiently. At present chemistry and botany were taught in the Schools of Mines at Ballarat and Sandhurst, and the Society thought their college was entitled to be placed on an equal footing with those schools. The Society were now negotiating to have the college affiliated with the University, so that medical students in their first or second year's course might have an opportunity of being trained in pharmacy and of being examined in it. Good teachers, however, must be secured for the college, or failure would result. The private means of the Society were all exhausted in providing apparatus, laboratory, and other necessities, and they were in difficulties about funds. In course of time the college would no doubt be self-supporting, but they now required assistance, and hoped that a sum would be put on the estimates for them. The Health Act recently passed would necessitate the education of a class of men to act as public analysts of food, &c., and they could receive that education at the college if it were assisted.

Mr. Huntsman said the application was a purely disinterested one. They would derive no personal benefit from the college, which was really intended to benefit students and the public in the future by having chemists and medical students well versed in pharmacy.

Mr. Bowen remarked that the heads of the medical school of the University would be very glad to have the advantages of the college for the education of their students in pharmacy.

Mr. Berry said it appeared from the statements made that the principal benefits of the college would be for medical students, and, as the education of those students was conducted by the University and it was handsomely endowed, he thought it should attend to the wants of the college. Would it not, in fact, have to do so if the college were affiliated?

Mr. Blackett replied that the University had no one competent to teach what the Society wanted to teach, and that all they would gain by being affiliated would be the status given by the recognition of the University.

Mr. Berry said that, unfortunately, everybody came to the State for assistance. He would be rather disposed to try and get rid of some of the institutions the State had to assist than create new ones.

Mr. Huntsman: If the State does not assist us, the expenses of education will have to fall on the parents.

Mr. Berry: Why should it not, when they are training them for what will be a good profession in after-life?

Mr. Blackett pointed out that the Society could not expect help from the University, which was really very much straitened

to meet existing demands upon it. They wanted to get good teachers from home—men who would know all the latest improvements and discoveries in scientific matters pertaining to pharmacy.

Mr. Berry said the University appeared to be in good circumstances, judging by a balance-sheet for the year 1882 which was before him. According to it, that year was commenced with a credit balance of 2,298*l.* 8*s.* 2*d.*, and concluded with an increased credit balance of 2,932*l.*

After some further discussion, in which the deputation pointed out that they could not expect any help from the University,

Mr. Berry asked that a full statement of what the college had done, the amount of fees they received from students, and the amount of assistance they thought it probable they would require might be furnished. When he received that statement it would strengthen his hands before the Cabinet, to whom he would submit the request. When the Cabinet had decided on the matter he would communicate with the Society.

PHARMACY IN CANADA.

(FROM OUR OWN CORRESPONDENT.)

MONTREAL, October 21.

THE excitement here just now is the condemnation of our provincial lunatic asylum by the celebrated Dr. Hake Tuke, who came out with the British Association people to the annual meeting, and who, while here, inspected our lunatic asylums. The report was published in the *Canada Medical Journal*, and it referred especially to the asylum at Longue Pointe, near this city, and to the Beauport Asylum, near Quebec. To an unprejudiced person, the report seems a fair one, and is evidently written by a man who has the courage of his convictions. It has already elicited replies from some of the French Canadian Catholic journals; but unfortunately they do not argue from a scientific standpoint; on the contrary, they begin by imputing unworthy motives to the doctor, which is absurd. The doctor states what he assumes to be facts; let these journals controvert his facts—if they can. I am told the doctor has made mental alienation and the treatment of the insane a special study for years, and is the author of several works on the subject: therefore he ought to know something about it.

There are few changes to report in drug firms this month. Messrs. Lyman, Sons & Co., so far as I can learn, have not yet arranged their new firm—at all events, no notice to their customers has yet appeared. They are doing an extensive business, and this spring fitted up a new wholesale and retail surgical-instrument warehouse on the premises which they previously used as offices.

Mr. Chapman, a member of the Pharmaceutical Society of Great Britain, and also a licentiate of pharmacy of the Pharmaceutical Association of this province, has purchased the business at the corner of Craig and Bleury Streets. The place has already a much more lively and business-like look than it had a month ago, and under Mr. Chapman's control will doubtless prove a good investment.

The Smith Medicine Company has gone the way of all flesh, a seizure having been put in by Messrs. Kerry, Watson & Co. and other firms, and an action having been entered against it by the Shaker Society, of New Lebanon, for infringement of a trade-mark.

Mr. W. H. Clare, of the old firm of Lymans, Clare & Co., has gone into the insurance business, and is doing well.

Messrs. H. Sugden Evans & Co. have converted their firm into a Limited Liability Company. It would have been a good move had the company embraced a few of the largest retail druggists in Canada; as it is, it is virtually an English company trading in Canada. A few local names would have popularised it here, and have induced a few heavy accounts.

One of the American journals of pharmacy recently drew the attention of retail pharmacists to the fact "that they, without thinking, give away valuable advertising privileges. For instance, the placing of an attractive show-card in a prominent position in a drug-store doing a large business is a splendid advertisement for a specialty, and really benefits the maker of the specialty much more than it does the

druggist. Numbers of transient customers will see that advertisement, and when they require an article of the kind will, in all probability, purchase it in some other store. Many of these manufacturers, with singular effrontery, actually make a proviso that the druggist who is about to give them valuable advertising-room *gratis* must purchase the right to do so by taking a certain number of grosses of the article advertised in order to get the show-card, and there are druggists who are short-sighted enough to do so." There is food for reflection here.

The classes at the Montreal College of Pharmacy are well filled this season. The opening address was delivered, as before stated, by Mr. Mason, and was a practical appeal to the students to work, not merely for the mere sake of obtaining a diploma, but for the love of science, and of pharmacy in particular. "Work while it is yet day: for the night cometh, when no man can work." At the close of the address Messrs. Manson, Ambrose, Jackson, and Professors Bemrose and Reed said a few words of encouragement to the young men.

A committee has been appointed to consolidate the acts relating to pharmacy, and also to make some of the clauses more explicit, and to introduce in addition several explanatory clauses.

Mr. W. S. Robinson, of Toronto, who is visiting England, writes to a friend here, according to the *Canadian Pharmaceutical Journal*, as follows:—"Last week I had the pleasure of spending a day at Bloomsbury Square . . . and, by permission, witnessing the examinations (Minor) in all the branches; and, while I do not consider them as hard as ours, they are conducted very justly, and are an impartial test of the ability of the applicants. I cannot see why the Pharmaceutical Society of Great Britain should not register one who has passed and obtained a certificate from our (Toronto) college, or at least accord to him the privileges granted to those who obtain the 'Minor' qualification of the London Society." So also think a good many licentiates of the Pharmaceutical Association of this province.

Chatting on pharmaceutical matters a few moments ago with an English friend, he reminded me of the number of Fellows of the Chemical Society of London residing in Montreal—H. Sugden Evans, Nathan Mercer, Dr. J. Baker Edwards, Professor Bemrose, and A. H. Mason. Plenty of material, it appears to me, for bringing the Pharmaceutical Association of the Province of Quebec to the front rank of similar associations.

THE CHEMISTS' AERATED AND MINERAL WATERS ASSOCIATION (LIMITED).

THE annual meeting of this Association was held on the 11th inst. at Anderton's Hotel, Mr. Horace Davenport in the chair.

The report submitted to the shareholders stated that the number of shareholders had increased from 708 last year to 908 this year, resulting in a decided increase in the trade of the Association, and this—together with the recent favourable season—enabled the directors to declare a better dividend than heretofore. They had, however, to inform the shareholders that a serious loss had been incurred at the Harrogate Branch through the embezzlement by the late manager, Henry Dean, of sums amounting to 602*l.* 18*s.* 10*d.* Suspicious were aroused in consequence of the disproportion of the cash receipts to the sales at this branch, and after investigation and prosecution the culprit was sentenced to six months' imprisonment with hard labour. The directors had received 100*l.* from a guarantee association. The Association had been put to a further expense of moving at Harrogate, having been (illegally, they are advised) ejected from their former premises, for which disturbance they are now taking action for the recovery of damages. Consequently, the Harrogate premises and rent account remains in abeyance.

They have opened a branch at Bristol which, they believe, will become a financial success, and they give the secretary credit for valuable services in planning these premises. They have, during the past few months, purchased a very large and powerful aerating-machine from the well-known makers, Messrs. Geraut & Co. This machine is the largest ever made, possessing two gigantic cylinders capable of turning out

immense quantities of thoroughly aerated water, a result not possible with small machines, when rapid filling is necessary. They are preparing to extend delivery by their own vans in London, and the directors had again given their services for less than the stipulated fees, while Messrs. Davenport, Gould, and Wilson had acted on the managing committee without remuneration, thereby saving considerable expenditure to the Association.

From the several balance-sheets submitted, it appeared that during the year ending September 30, 1884, sales and profits were as under:—

	Total Sales	Gross Profit	Net Profit
	£ s. d.	£ s. d.	£ s. d.
London	5,582 5 1	2,488 17 6	1,379 17 0
Harrogate ..	2,131 17 4	1,201 14 5	465 18 4
Bristol (5 months)	360 13 8	179 13 7	73 5 0

The gross profit is obtained by deducting cost of wages and material from the amount of the sales; the net profit by deducting further rent, office and all general expenses. The profits include 45*l.* 10*s.* in London, 22*l.* 10*s.* 6*d.* at Harrogate, and 10*l.* 2*s.* 1*d.* at Bristol on sales of natural mineral waters. One item of profit in the London account is "Unclaimed dividends written off, 10*l.* 12*s.* 3*d.*" Harrogate profit is obtained after allowing for Dean's embezzlement.

The directors proposed to deal with the profit as follows:—

	£ s. d.	£ s. d.
Preliminary expenses written off	500 0 0	
Wear and tear of plant, 10 per cent. written off,		
London	294 0 0	
Wear and tear of plant, 10 per cent. written off,		
Bristol	83 0 0	
Wear and tear of plant, 10 per cent. written off,		
Harrogate	83 0 0	
Improvement of premises, written off	460 0 0	
Dividend, 6 per cent., free of income tax	150 0 0	
Balance carried to reserve fund	630 0 0	
	179 0 4	
	1,919 0 4	

A letter was read from Messrs. Loten Bros., of Hornsea, customers of the Harrogate branch, living 75 miles from the factory, suggesting that a reduction of 10 per cent. should be made to customers living beyond a radius of 30 or 40 miles, to meet the heavy cost of carriage.

The chairman, Mr. HORACE DAVENPORT, then moved the adoption of the report and balance-sheet. He thought it was very satisfactory, though the Association had again to struggle with serious difficulties. The season had been unprecedentedly favourable, and it would not be judicious to base on it estimates for the future. A large number of chemists in Bristol had promised to support a branch of the Association if established. But when this was done a local maker reduced his prices, and those who had given their promises then said they saw no reason why they should leave the firm they had previously dealt with. Only two had kept their promise. A letter from a Bristol practitioner had appeared in the *Medical Press and Circular*, very highly commending all the arrangements of the branch. If any charges were made against the Association or himself personally, he hoped they would let him know and give him a chance of reply. He knew that he had given offence by the price at which he sold the waters, but that was a matter for each one to decide for himself. In his neighbourhood he had to meet the competition of grocers, stores, &c.

Mr. ALGAR seconded the chairman's motion.

A suggestion being made that the van drivers should collect accounts due elicited the statement that the Association had made only two bad debts during its business career—one of 2*l.* and one of 14*l.*

Mr. NICHOLLS called attention to the fact that the amount of breakage, was very heavy. The chairman explained that this had excited his suspicions, and means were now taken to check pilfering if possible. While a lad in his employ was delivering out case of syphons at a house, another, weighing 75 lbs., had been stolen from his barrow. There could not be many syphon-fillers in London, and it would be well to combine to find out who was acting as receiver of stolen syphons.

Mr. JAMIESON said he never saw a company do its work better. The waters were always clear and bright, there were

never any complaints, and orders were punctually attended to.

Mr. ALGAR asked what remuneration the directors were entitled to, and how much had been paid to them during the year. In reply the chairman said that 25*l.* a year each was the director's fee, and there were five of them. The amount actually paid last year was 78*l.* On a suggestion that the amount should be increased, and that the directors should take in full the fees which they have relinquished in the past, he said that at present the directors did not wish to do this.

Mr. NICHOLLS said that the Association had benefited, not only its members, but every chemist in London, as it had brought down makers' prices all round.

The report and balance-sheet were then carried unanimously.

The chairman announced that dividends not claimed before Christmas 1884 would be placed to the credit of open accounts.

Mr. URWICK then moved that the directors be authorised to spend 100*l.* in advertising in Bristol and the neighbourhood the branch established there. This was seconded by Mr. JAMIESON.

Mr. NICHOLLS moved as an amendment "that a circular should be issued to all the medical practitioners in the neighbourhood, but that no other advertising should be done." By adopting this plan when the Association first started, he had speedily built up a very fair trade. He got up a small pamphlet, pointing out that the waters were manufactured by chemists with special care in accordance with the Pharmacopœia. This was sent to all the medical practitioners living near him, and created a genuine demand, which still exists; as the doctors constantly recommend the "Chemists' waters." This amendment was not seconded, and the resolution was carried.

Mr. JAMIESON then proposed that present shareholders should be allowed to take up fresh shares at par for one month, after that date at the usual price of 1*l.* premium. This was seconded by Mr. FITCH, but on being put to the meeting was lost.

There-election of Messrs. Goldfinch and Wilson was proposed by Mr. FITCH, who said it would be a misfortune if any of the directors were superseded. It was carried by acclamation.

Mr. NICHOLLS proposed a vote of thanks to the chairman, directors, and secretary for their excellent way of economising and working the Association. Another year they might be able to make this more practical by a gratuity to the secretary, who was not sufficiently remunerated for the many extra hours he had expended in their interests.

Mr. URWICK seconded the vote. He said they were greatly indebted to the directors and to Mr. Butler. They could not have a better or more able secretary, or one more master of the business. He was perfecting details in all directions.

The chairman briefly returned thanks for himself and the secretary.

A SIMPLE ANÆSTHETIC FOR TOOTH EXTRACTION.

A. AARONSON, L.D.S., Whitechapel Road, writes, in the *British Journal of Dental Science* (November 1st), that tincture of cannabis indica as a local anæsthetic is perfectly satisfactory. He has extracted with its aid as many as twenty-two teeth and stumps in one sitting. His plan is to dilute the tincture of cannabis indica some three or five times, according to the probable duration of the operation. The diluted tincture is then applied in cotton-wool to cavities if such exist, and also about the gums of the affected teeth. The beaks of the extracting forceps are, also after being warmed, dipped in the diluted cannabis indica. In cold weather it is wise to dilute the cannabis indica with warm water. His patients acknowledge the immunity from pain they enjoyed during the extraction, and all expressed surprise and pleasure at the simplicity of the performance. The ordinary methods of anæsthetising are subject to danger; this is as effectual, and is devoid of the possibility of harm.

SOME CURIOSITIES OF THE GLASS MANUFACTURE.

Suggested by the Forestry Exhibition at Edinburgh.

BY ALEX. HUNTER, M.D.

THE chemistry of the contributions from some departments forms a curious and instructive lesson, from the fact that the refuse of one manufacture forms the staple upon which others have risen into usefulness. Take, for instance, the old glass-houses at Leith for the manufacture of common black bottles for Prestonpans beer, Edinburgh ales, and Dublin porter. Few people would have expected that the refuse slag from these glass-works would have proved the most attractive and remunerative contribution to the exhibition, or that from this apparently coarse rubbish our manufacturers and chemists should have been able to improve this slag into a hard glass, granolithic pavement, and the basis of Parian porcelain.

Another very beautiful manufacture which has sprung into existence from this slag is tender porcelain. At first the refuse from the glass-furnaces was alkaline, and apt to deliquesce, from containing too much kelp from the ashes of seaweed. The first use to which this slag was applied, about fifty years ago, was as a coarse protection for the tops of garden-walls, to prevent orchards from being robbed of their fruit. A layer of soft mortar was first applied, and into this was inserted the slag; but, as it attracted moisture from the sea air, and the lumps fell out, broken black bottles were substituted, and they lasted longer. It is now found that fruit-gardens near large towns are better protected by building high stone walls with rounded coping-stones: the high walls give shelter and warmth, which help to ripen the fruit. The modern improvements in the manufacture of glass have led to the use of more sand and less kelp and lime for the coarse black glass, and the importation of white sand and barilla for the finer kind of white glass. This necessitates a much fiercer heat in the furnaces, but the slag is harder, though more brittle.

A curious application of black-bottle glass from which great things were expected was the manufacture of Reaumur's porcelain. Articles made from finely-ground glass bottles were exposed for two or three days to intense heat embedded in plaster-of-Paris. The glass was thus devitrified, and changed into a tough dull-grey silicate; but the expense was great, and the results were not satisfactory. The experiments, however, led to the improvement of our Wedgwood mortars, and to the discovery of Parian porcelain. Amongst the varieties of glass contributed to the exhibition were a few of very brilliant colours of green, velvety black, yellow, and orange, from India, along with enamels, jade, and other stones. One kind of green glass is coloured with copper to imitate malachite. Attempts were made a few years ago to colour glass with uranium, which is the colouring-material of the emerald. Glass of very bright pale-green colours was manufactured, and received the name of "emerald glass"; but it was very difficult to anneal, and it did not stand sudden changes of temperature. One of the consignments of this beautiful glass, ordered for a regimental mess in Madras, actually shattered to powder during the first hot weather. An enterprising manufacturer of glass bangles purchased the broken glass on account of the fine brilliant green, and by mixing it with calcined felspar was able to use it for enamels of a fine emerald-green colour.

Some interesting facts have been brought to notice by the Forestry Exhibition regarding the manufacture of glass and enamel, by an examination of the various descriptions of wood charcoal employed in their manufacture. It has long been known that the best qualities of fine Venetian glass, and optical glass for telescopes, binoculars, and spectacles, as well as the celebrated Bohemian glass, are made on rather a small scale, in crucibles of a moderate size, and with fuel made from hard woods, carefully burned into charcoal in covered crucibles or in circular pits lined with fireclay. Large sheets of window glass require the fierce heat of blast-furnaces with coal fuel, and the better kinds of plate glass for windows and large mirrors can hardly be melted without coal fuel. This leads us back to the early manufactories of

Scotland, and to the wonderful benefits that resulted to Great Britain from the Roman invasion.

Agricola, who came into Scotland in the first century of the Christian era, is the oldest author who has written on the manufacture of glass. He describes furnaces and processes closely resembling those in use at the present day, and it is not improbable that we owe much of our knowledge of these to his teaching and to the writings of his son-in-law, Tacitus. Pliny, who lived about the same time, ascribes the manufacture of glass and its discovery to accident. A merchant-ship laden with natron, or crude carbonate of soda, was driven ashore at the mouth of the river Belus; the crew cooked their victuals on the shore, and had placed lumps of natron to support their kettles and cooking-vessels. To their surprise they found lumps of transparent stone—or glass—amongst the cinders. This quality of soft alkaline glass appears to have been discovered in other parts of the world besides the Mediterranean, for we find it in India, Persia, and China, where the arms of the women are decorated with glass bangles of different colours of black, green, orange, and yellow; copper, iron, antimony, and tin being the metals employed to yield the colouring oxides.

A curious brilliant iridescence is found in some of the glass vessels of the Italian manufactories. These were discovered in great quantities in the excavations of the ruined cities of Herculaneum and Pompeii, which were buried in the eruptions of Vesuvius, about the year 79 of our Christian era. The cause of this iridescence is probably the partial devitrification of the glass from having been kept at a great heat for several days while buried under ashes, mud, and scoriae. The melted lava would probably have destroyed the glass, metals, and other records of this eruption which the careful researches of modern scientists have brought to light. The paintings on the walls of the houses and on the pottery of that period teach us a sad lesson of the fearful depravity and corruption of the Roman Empire.

The Phœnicians brought the manufacture of glass to great perfection, and the art was subsequently taken to Venice, whence it spread all over Europe. As to the period when glass was first made we have no certain data: but the Bible talks in several places of its use; as, "seeing through a glass darkly" (1 Cor. xiii. 12, A.D. 59), the probability being that the manufactures of glass up to the first century were little better than this crude and alkaline dark green bottle glass, or, perhaps, the paler green glass used in France. Other allusions to "glasses" and "mirrors" seem to refer to bronze hand-mirrors.

In the exhibition were a number of glass imitations of diamonds, gems, and precious stones, with a fine show of aqua marines, moon-stones, vellum stone, or clear rock crystal, artificial rubies and sapphires, ceylanite, turquoise, both real and artificial, garnets and ruby garnets, jet, artificial jet, and black bugles of glass which are now extensively used in decorating ladies' bonnets and mantles.

The art of making enamels appears to have been discovered at a much earlier period than glass, as the mummy-cases of Egypt contain numerous specimens of brilliant small figures in bronze encrusted with blue and green enamels. This discovery, like that of glass, probably owed its origin to accident also, as the Israelites, in their wanderings through regions where granite rocks abound, must have constantly found that the felspar melted with comparative ease before the brass, copper, silver, or gold with which they worked were sufficiently fluid to be poured into the moulds. The quartz of the granite retains its form in the furnace, and becomes very much whiter than the felspar, which can be poured away from it, leaving a dirty grey slag in the crucible, composed of the hornblende and mica of the granite. If it is desired that these substances should all be melted together, the addition of a little lead or tin acts as a flux to assist the fusion; but in the manufacture of fine glass it is found to be better to commence with purer materials, and for coarse glass common limestone furnishes a cheaper flux. These discoveries, which have resulted from the labours and researches, first of the alchemists, then of the more intelligent chemists of the last and the present centuries, have ended in the production of the beautiful Wedgwood porcelain, Belique ware, tender porcelain, and imitations of marble called Parian ware. Our manufacturers next turned their attention to the imitation of gems and precious stones, which they produced of a wonderfully brilliant lustre,

and so nearly approaching the real gems that it was feared that diamonds and precious stones would soon lose their value, as the paste, called "strasse," could be made to imitate stones of any colour. One very simple and satisfactory test, however, soon proved sufficient to establish the superior value of the real diamond over the counterfeit, and that was its specific gravity. Mr. Brougniart, who was the director of the celebrated porcelain manufactory at Sèvres, did a great deal, in conjunction with Professors Jamieson, Vauquelin, Faraday, and a host of other intelligent chemists, to disseminate precise knowledge of the chemical composition of minerals, and to dispel much of the bombastic nonsense which the searchers after the "philosopher's stone" (which was to turn all metals into gold) had introduced into their books on chemistry. One of the grandest lessons to which these researches led was that we work easily enough with silica, lime, lead, borax, potash, and soda as fluxes, and the oxides of a few of the metals, in imitating silicious stones, but when we attempt to work on the large scale with aluminous bases we are baffled. We have been able to imitate the appearance of many gems with silicious pastes, but the specific gravity tells at once, and leads to the easy detection of the counterfeit ones; their relative hardness is another trustworthy test.

Few people are aware that a real diamond is from nine to ten times the weight of a paste imitation of one of the same size: hence a diamond merchant can tell at once the difference if he gets a stone into his hand. A carat of four grains forms the standard of comparison for specific gravity. A few small diamonds, it is said, have been artificially made; but they have not found their way into the market so as to interfere with the sale of really good ones. The black diamonds are of a coarser quality, and not quite so hard as the clear ones. They are used chiefly for grinding the latter. Black bugles in glass are much used to imitate black diamonds. This subject, though interesting, need not be further pursued. Science, we have shown, has enabled our chemists to do a good deal. God teaches us by the results of volcanic action and by the force and pressure of strata on the earth's surface that there are agencies at work, far transcending any which man can call into operation.

In a subsequent article we hope to take up the chemistry of some of the vegetable contributions to the Forestry Exhibition, including the uses of the different trees which have been blown down in gales, and which are leading to serious mischief by their decay, by breeding insects injurious to other timber trees, as well as to our cattle, sheep, and horses.

TRADE-MARKS APPLIED FOR.

From the "Trade Marks Journal," October 15, 1884.

Applicants	Description of Goods	Number of Application	Mark
'Carriek, Geo. L., 25 Moika, St. Petersburg ..	Condensed mares' milk, koumiss, &c.	37,326	Picture of mare and foal
'Schindler-Barnay, Ch., physician, Vienna ..	Medicinal preparations	38,069	"M. R.," and picture of a building
'Blumiston Company, Newhaven, Connecticut	Food preservatives	38,325	The words "Rex Magnus"
'Reinhart, Fr. Jules, 24 Rue St. Laurent, Bordeaux, wine merchant	Orange wine	38,519	Label, with the words "Viu d'oranges amer, apéritif, tonique, digestif"
'Earden Hand Grenade Fire-extinguisher Company, 205 Wabash Avenue, Chicago, U.S.A.	Fire-extinguishing compounds ..	38,817 38,818 39,616 38,819	} Pictures of the grenades, and a star
'Jeanes, Geo., veterinary surgeon, 65 Fentiman Road, Clapham Road, S.W.	Substitute for milk for calves ..	39,026	
'Woodhead, Jas. R., gas-engine works, Whitehall Road, Leeds	Gas-engines	39,063	The words "Bovine saccharum lactis," and pictures of cow and calves The words "Leeds Gas-engine"
'Haysworth, Wm. Stone, 6 Haysworth Street, Preston, Lancashire	Mineral and aerated waters ..	39,077	Picture of compasses in a square and diamond
'Bates, Thos., trading as "British Soap Company," 17 Bath Buildings, Huddersfield	Dry soap	33,114	The words "The British Dry Soap," and a design
'Stewart, Wm. Hy., chemist, 4 Market Place, Shirland Road, St. Peter's Park, W.	Hair-wash	39,134	"Stewart's Parisian Hair-wash for Children," and picture of a child
'Alcock, Edm. Ch., 10 Lambert Street, Liverpool, plaster manufacturer	Pills, ointment, and plasters	39,138	Cock crowing on a gate
'Davis, Walter Ch., F.C.S., St. Petersburg Place, Bayswater, W.	Medicine for human use	39,189	"Miraculine," for toothache and corns, with label
'Salter, Geo., Corn Exchange Passage, Birmingham	Dentifrice	39,213	"Octopus dentifrice, cleansing, and astrigent," in label
'Leigh & Co., Globe Mineral-water Works, Oldfield Road, Salford	Aerated waters and ginger-beer ..	39,221	Picture of globe in a star
'Electric Washing Cream Company, 65 Leeds Road, Bradford, Yorkshire	A washing paste for the laundry ..	39,224	"Electric Washing Cream," and picture of are lamp
'Wilson, John, tea dealer, 34 English Street, Carlisle	Cough cure	39,261	"Watson's Childreu's Cough Syrup," with picture
'Ridge, Dr. J. J., Carlton House, Baker Street, Enfield	Aerated non-alcoholic beverage ..	39,334	"Saluber"
'Bates, Fr. W., chemist, Brook's Bar, Manchester	Preparation for curling the hair ..	39,359	"Frizzetta"
'Griffiths, Berdce & Co., 51 South John Street, Liverpool, and 34 Leadenhall Street, London	Paints, pigments, artists' colours, and all chemical substances used in manufactures	39,606	"Aquarel"
'Good Bros., Headley Mills, Ravensbourne Street, Greenwich, S.E.	Horse and hound food	39,613	Picture of horse and hound, and letters "G. D. F."
'Martin, John Wesley, 165 Beckenham Road, Road, Penge, S.E.	Tooth-powder, paste, and all other preparations in Class 48 used for teeth and gums	39,644	"Rozalium"
'Hewlett, C. J., & Son, 40 to 42 Charlotte Street, E.C.	Chemical preparations for medicine and pharmacy	39,731	Picture of an owl, with name of firm
'Kelley, Thos. Young, Nubian Blacking Company, Smithfield Chemical Works, 8 and 9 Hosier Lane, Smithfield, E.C.	Blacking, harness - composition, metal-polishes, furniture-cream, and all similar preparations	39,808	Head of a Nubian, and the word "Nubian"
'Kelley, Thos. Young, Nubian Blacking Company, Smithfield Chemical Works, 8 and 9 Hosier Lane, Smithfield, E.C.	Blacking, harness - composition, metal-polishes, furniture-cream, and all similar preparations	38,809	The word "Nubian"
'Webster Bros., 20 Dixon Street, Glasgow ..	Tea	39,822	"Bazaar Teas"
'Burroughs, Wellcome & Co., Snow Hill Buildings, Holborn Viaduct, E.C.	Chemical substances for veterinary and sanitary purposes, including antiseptics	39,903	"Eucalyptine"

From the "Trade Marks Journal," October 22, 1884.

Applicants	Description of Goods	Number of Application	Mark
Anglo-Swiss Condensed Milk Company, Cham, Switzerland, and 10 Mark Lane, E.C.	Foods and ingredients	32,899	Picture of a milk-maid
Anglo-Swiss Condensed Milk Company, Cham, Switzerland, and 10 Mark Lane, E.C.	Condensed Milks, coffee and milk, chocolate and milk, essence of coffee	38,175	The same, with the words "Milk-maid brand"
Gale & Co., 15 Bouverie Street, London ..	Medicinal preparation	38,088	"Gale's effervescent saline, with caffeine"
Ordish, Thos., trading as "T. Ordish & Co.," 108 Hatton Garden, London	Cement for china, glassware, &c. ..	38,309	"The celebrated 'Mend-all,' with a label
Ordish, Thos., trading as "T. Ordish & Co.," 108 Hatton Garden, London	Paste, being an article of stationery	38,310	"Parlour-paste," with a label
Booth, Wm., 101 Queen Victoria Street, E.C.	Tea	38,591	"Salvation Army Tea," and a design
Booth, Wm., 101 Queen Victoria Street, E.C.	Perfumed soap	39,050	"The Salvation Army"
Larmuth & Co. (Limited), Albert Works, Orchard Place, Clarence Road, Hackney, E.	Wine	39,110	Label, "Ye Olde Englysshe Champagne," and signature-label, "Ye Olde Englysshe Sparkling Burgundy" The wine labels distinguished from the water only by picture of a wineglass
Larmuth & Co. (Limited), Albert Works, Orchard Place, Clarence Road, Hackney, E.	An aerated water	39,111	
Larmuth & Co. (Limited), Albert Works, Orchard Place, Clarence Road, Hackney, E.	Wine	39,112	
Larmuth & Co. (Limited), Albert Works, Orchard Place, Clarence Road, Hackney, E.	Aerated water	39,113	
United Agencies (Limited), Jeffrey Square, St. Mary Axe, E.C.	Soap, detergents, oils, &c.	39,234	Picture of Crystal Palace illuminated
United Agencies (Limited), Jeffrey Square, St. Mary Axe, E.C.	Dubbin, furniture-polish, plate-powder	39,235	Picture of Crystal Palace illuminated
Miconochie Bros., Righun Works, Lowestoft	Jams and jellies	39,331	Labels with the words "Suffolk Jams," "Suffolk Pickles," "Suffolk Sauce," &c.
	Pickles	39,332	
	Sauce	39,333	
Jeames, Geo., veterinary surgeon, 230 Clapham Road, S.W.	Horse and cattle food	39,469	Brick, embossed "Bovine Brick of Health"
Spinner & Co., 60 Strand, London, and 24 Church Street, Liverpool	Tea	39,647	"Spinner & Co., Best Tea," and design
Cox & Co., Acton Street, Haggerston, E.	Alcoholic beverage	39,673	Railway-signal post, with words "Anti-Burton"
Taylor & Thomas, chemists, 6 Victoria Street, Manchester	Bleaching-powder for cloth, &c. ..	39,715	"Laverine," written
Osborn, Garrett & Co., 51 Friith Street, Soho, London, and 8 Digbeth, Birmingham	Perfumed soap	39,789	"Kropp," and picture of a bat flying
Chemical Papers Company, 3 Lombard Court, E.C.	Papers for packing, &c.	39,869	An eagle, with stars, stripes, and name of firm, &c.

From the "Trade Marks Journal," October 29, 1884.

Applicants	Description of Goods	Number of Application	Mark
Patent Liquid Fireproof Cyanite Company (Limited), 33 Mildmay Chambers, Bishopsgate Street Within, E.C.	Fireproof and fire-resisting liquid ..	34,986	"Cyanite Paint"
Volkart Brothers, Winterthur, Switzerland..	Chemicals used in manufactures, photography, research and anti-corrosives	37,278	Picture of Hindoo dancer and musician, and "Volkart Bros., Bombay, sole importers"
Pilkington, W., & Son, Widnes, Lancashire..	Chemicals used in manufactures ..	37,494	"Golden Tiger," and picture of tiger
Boag, A., & Co., 50 Grey Street, Newcastle-on-Tyne, Hument manufacturers	Horse and cattle liniment	38,159	"Boag's Magic Horse Liniment," and picture of huntsman leaping a gate
Entwistle Brothers, 39 Shaw Street, Liverpool, dentists	Preparations for the teeth	38,367	Shield, with three crosses, and heron flying
Gosnell, John, & Co., 93 Upper Thames Street, E.C.	Toilet-powder	38,372	"Cherry Toilet Powder"
Palmer, James Spencer, 7 Norfolk Buildings, Bath	Medicine	39,025	"Æthamodyne," and direction for use in diarrhoea, &c.
Hinde, John L., trading as "Hinde Bros.," 103 Suffolk Street, Birmingham	Wire hair-brushes	39,094	"Hinde's Improved Wire Hair-brush," and picture
Viuda de Gialiani, Rua de las Piedras, Monte Video, and Rua Rivadavia, Buenos Ayres	Chemicals for agricultural, veterinary, and sanitary purposes	39,365	A mounted Indian, and words "El Indio"
	Also chemicals used in manufactures, photography, &c.	39,366	A mounted Indian, and words "El Indio"
	Also aerated waters	39,333	A mounted Indian, and words "El Indio"
	Also perfumery	39,335	A mounted Indian, and words "El Indio"
Hill, Tom, trading as "Thos. Cope," 6 Furnival Road, Sheffield	Non-aerated ginger-ale, tonic beer, (non-alcoholic aerated), and aerated waters	39,700	Picture of flower top, and word "Centuary"
Hill, Tom, trading as "Thos. Cope," 6 Furnival Road, Sheffield	Non-aerated ginger-ale	39,944	Ditto, but with words "Non-aerated Ginger-ale"
Bridges, E. C. T., 32 Station Road, Willesden Junction, Middlesex	Cure for corns	39,372	"Kalaradha," Bridge's Corn-killer, and label
Knight, John, Silverton Soap-works, Silverton, E.	Perfumed soap	39,815	"John Knight"
Chlorozone Fluids Company, Albert Embankment, Lambeth, S.E.	Disinfectant fluid	39,827	"Chlorozone"
Chlorozone Fluids Company, Albert Embankment, Lambeth, S.E.	Washing fluid	39,823	"Eureka"
Ward, John, herbalist, 10 Corporation Street, Eccleshill, near Bradford, Yorkshire	Medicated salve, named "Skin Specific"	39,902	Ointment-jar, with label, "John Ward, Skin Specific Herbalist"
Walcker & Co., Bremen and Loxstedt, Germany	Condensed milk	39,911	Steamer in full sail, &c.
Dodd, Edwin, 2 Gothic Villa, West Green, Tottenham	Articles for surgical, dental, and other purposes	39,917	"Cartilagite"

From the "Trade Marks Journal," November 5, 1884.

Applicants	Description of Goods	Number of Application	Mark
Hallett, Walter, 14 Bridge Terrace, Paddington	Furniture-polish	37,919	Picture of a servant, with reflection in a table-top
Oserby, W. W., 32 Hedon Road, Kingston-upon-Hull	Dry soap	38,135	"Our Special Dry Soap," and design
Keens, John, 147 Central Street, City Road, London	Mustard	38,296	"John Keens' Mustard," and design
Pearson, Dav., trading as "Liebig's Beef Wine Company," 23 and 25 Hatton Garden, Liverpool	Liebig's beef wine, being a fermented liquor	38,357	"Liebig's Beef Wine," and a label
Briggs, Wm., Chemical Works, Arbroath, N.B.	Soap extract	38,520	Picture of two hands wringing a garment
Hughes, Jacob, Clive Place, Penarth, Glamorgan	Pills	39,271	"Hughes's Dropsy Pills"
Hughes, Jacob, Clive Place, Penarth, Glamorgan	Pills	39,272	"Hughes's Blood Pills"
Ridge, Dr. J. J., Carlton House, Baker Street, Enfield, Middlesex	Aërated non-alcoholic beverage ..	39,335	Label, "Saluber Ale," and signature, "John Needham, Redhouse, Tottenham"
Simpson, Thos., firm trading as, Felton Villa, Cemetery Road, Malvern	Veterinary medicine	39,403	"Simpson's Fumigator, a safe, speedy, certain cure," and picture of a dead calf
Dr. Justice, firm trading as, 50 Finsbury Square, London	Preparation for the hair	39,514	"The Anti-Dandruff"
Kerlot, Thos., Medlock Vale Works	Lozenges, not medicated, and confectionary	39,553	"Mintine"
Morrison, Robert, First Avenue Hotel, Hobborn, E.C.	Perfumery	39,702	Label, "First Avenue Royal Bouquet," with address and picture of vestibule
Wigfull, Joshua, & Sons, Sheaf Flour Mills, Sheffield	Flour, digestive meal, &c.	39,759	Initials, "J. W.," and corn-sheaf
Derby Photographic Dry Plate Company, 6 St. James Street, Derby	Dry plates	39,935	Label, "The Derby Dry Plates, Extra Rapid," &c.
Shirley, Ar. Wm., 30 Paternoster Square, E.C.	Perfumery	39,948	Label, "Society, the New and Lasting Perfume," with blank for name and address
Sutton, F., & Co., London Street, Norwich ..	Horse and cattle medicines	39,994	"The Norfolk"
Kineaid, Geo. Weekes, 35 Whitehead's Grove, Cadogan Square, S.W.	Medicine	40,033	"Oxydyne"
McEwen, Jas., Blake Street Works, Stretford Road, Manchester	Aërated-water filling-machine ..	40,090	"Rapid Paragon Filling Machine"
Pond, Geo. Peter, 68 Fleet Street, London, E.C.	Aërated beverage	40,175	"Hygieia"

Dentistry for Druggists.

(FOURTH ARTICLE.)

DILACERATION is a distortion of the fangs of teeth, caused by the misplacement of contiguous teeth, thus retarding the regular growth of the fang. Mr. Tomes defines it as a displacement of the calcified portion of a tooth from the tissues which were instrumental in its production. When displacement takes place during the developmental period a very complete union may afterwards be effected.

Many undecayed teeth are lost in middle and advanced life owing to absorption of the root, atrophy of the alveolar process, loss of vitality, mercurial salivation, and also hypertrophy of alveolus.

SUPERNUMERARY teeth are an abnormal condition as to number of the natural dental formula; they occur as separate additional teeth, whereas a supplemental tooth may arise from the neck of another tooth to which it is joined, as in the case of a cusp covering the crown of an incisor tooth. Cases sometimes present themselves in which the patient has less than the usual number of teeth in the dental arches, though none have been extracted. There are cases on record in which all the teeth were wanting, a state of things generally accompanied with a falling off of the hair (alopecia.)

SALIVARY CALCULUS and the operation of SCALING TEETH.—The hard incrustation or tartar which collects round the teeth is true calculus deposited from the saliva of the mouth, in the form of phosphate of lime combined with organic materials.

Tartar is to be found on the teeth, and sometimes over-spreading the gum in situation where the saliva is at rest on the outer side of the upper molars, and on particularly the incisors and canines of the lower jaw. Tartar may be hard,

soft, rocky, or coherent, and in colour it may be green, black, brown, or yellow. The effects caused by the deposition of tartar are serious. When it is present around the necks of the teeth in any quantity recession of the gum with absorption of the alveoli occurs in nearly every case, unless prompt measures for its removal are employed. It may give rise to depression of the gum, thus robbing the teeth of their support, and, as a consequence, they fall out unaffected by disease.

The best method of removing superficial tartar on front teeth is to use a cane brush charged at one end with dilute hydrochloric acid, and at the other with an alkaline powder, the momentary action of the acid being almost immediately neutralised by the alkali. But for the removal of tartar in quantity the following method is preferable. Insinuate the point of a proper scaling instrument below and at the edge of the tartar, and with a small degree of leverage the deposit will become detached *en masse*. If not very thick upon the tooth surface, and the tooth or teeth should be loose, steady each tooth operated upon with the thumb of the left hand, or whatever fingers may prove most convenient, then proceed to scale, removing tartar with as *light* a hand as possible. Afterwards apply a ligature to loose teeth, which may be done as follows: Pass silk round fast tooth, tie with a single knot *between* teeth, bring ends round next tooth, and tie on in like manner. When you come to next fast tooth tie a double knot. This procedure retards final loss for some time.

It very often happens that the enamel will be chipped off about the necks of teeth. In such cases the proper treatment is to cut away the jagged parts with an enamel-cutter and files, and to polish the surface of exposed dentine. If the dentine is unaffected by caries it will wear well.

RETARDED DENTITION.—The probable causes giving rise to difficult eruption of the temporary teeth are hereditary predisposition, rickets, and a strumous habit or cachexia. A permanent tooth may be retarded in its eruption owing to

prolonged retention of a temporary tooth; or from impaction in the substance of the jaw, giving rise to cystic formation. Great and serious trouble is often present during difficult dentition. In the case of weakly infants, it is not uncommon to find that the teeth, even at the age of twelve or fourteen months, have not come through the jaw, and as a consequence, fever, with great brain disturbance, and convulsions ensue, and in the majority of cases lead to a fatal issue. It is always wise when a case presenting such grave symptoms is brought for treatment, to refer the patient to a physician. In less serious cases, the timely interference of the dentist is attended with the best results. And here an oft-repeated caution may be reiterated. Never, under any circumstances, treat a child suffering from difficult dentition by giving opium in any form, or in the smallest dose. The process of teething when normal is a perfectly natural one, and requires little if any interference. Where the digestive functions are impaired—often, indeed, due to improper food, both in quantity and quality—and the bowels irregular, with clay-coloured or green, slimy, and offensive motions, the following treatment may be followed with advantage: hydrarg. c. cretâ gr. xii., phosphate of lime, gr. xxiii., sacch. lact. gr. xxx. Triturate well and divide into twelve powders. Half a powder to be given daily until the motions are healthy. Flor. anthem. three drachms, aq. fervent, half a pint. Infuse for one hour. A teaspoonful to be given night and morning. Diet: milk is the only and best food for an infant until it attains the age of one year. Eruptions on the face, behind the ears, discharges from the ears, call for no local interference of any kind beyond keeping the parts clean by tepid water. As regards lancing the gum to afford exit to the coming tooth or teeth, the following indications are to be noted. If the gum is in a state of tension, opaque, or transparent, and the outline of the tooth is to be seen beneath, divide the gum, making a crucial incision for back-teeth. For incisors and canines, have regard to the shape of the coming tooth. In nervous twitchings of the face with threatened convulsions, lance, if there is a reasonable probability that the tooth is through the alveolus. If the gums are swollen, mere scarifying relieves by depletion. If the gums are not pushed up by the advancing teeth the operation is useless.

EXOSTOSIS is a hypertrophied state of the tooth-bone, or cementum, sometimes slight, otherwise extensive. As tooth-bone undergoes perpetual absorption and redispotion, the amount which is the seat of inflammation is ever varying in quantity. Exostosis is generally confined to the lower third of fang. Symptoms: general thickening of tooth-fang, with a thickened deep-red gum, easily bleeding; gnawing and sympathetic pains in the head ensue. The peculiarity of this affection consists in the fact that the teeth present a sound appearance. If neuralgic pains exist, exostosis must be sought for; small nodulated exostosis frequently exists, and affects many teeth in succession. In the diagnosis of such cases, when the teeth appear superficially sound, it is always necessary to examine the mouth carefully. There may be no sympathetic pains present, nevertheless look for redness and an inflammatory state of the gums, suspecting either exostosis or an abscess. Go over the teeth carefully, using percussion with an ivory-handled instrument in order to discover the delinquent. Use a magnifying glass, upon which pour a drop or two of glycerine to keep off moisture, and make thorough search for faulty enamel.

NECROSIS is a term applied in reference to the teeth when death of the pulp takes place, and, as a consequence, a tooth loses its vitality. The tissues are discolored and assume a bony consistence.

The Druggists' Lawyer.

THE CUSTOM OF THE TRADE AS AFFECTING CONTRACTS.

CUSTOM is a law not written, but observed by the persons to be affected thereby for so long as to be binding upon them even if not expressed. General customs are those which are of universal obligation, and are equivalent to what is commonly known as the common law. But in addition to these general customs, there are in all trades certain special customs which are observed by the members of those trades, as they have been observed by their predecessors from time immemorial, so generally that whenever a contract is entered into, it must be presumed to have been intended to incorporate such of the customs of the trade as may be applicable thereto. In the case of general customs, no proof of such custom is necessary; but when a special custom is to be set up in answer to an action it must be pleaded and proved. Besides this, another difference exists; for a general custom is good without any inquiry being permitted as to its reasonableness, &c. But a particular custom, whether it be limited in point of locality, or peculiar to any trade, or to any class of persons, must be reasonable; it must be certain; it must be compulsory; it must be immemorial; and it must be possible in law.

There are some differences of opinion as to the origin of these special or particular customs; some writers maintaining that they are the remains of statutes or other laws so old as to have been altogether lost sight of; while others contend that they have not had any statutory origin, but have arisen from motives of general convenience, and have become binding because every person concerned had recognised them so long that it would be contrary to common sense and justice to suppose that they could have been absent from the minds of the contracting parties when they entered into their contracts; they set down such of the terms as were not settled by custom, leaving the recognised terms to be implied as if they had been inserted in the agreement. This seems to be consistent with probability, and it is doubtless consistent with reason and convenience. It is convenient that certain customs should be recognised in all dealings to which they are applicable, as the contracting parties are supposed to be acquainted therewith; and in this respect the rule is the same as in the case of both common and statute law. It is essential to the administration of the law that every subject should be assumed to be acquainted therewith, for if ignorance of the law could be admitted as a defence, it would be impossible to punish any infractions of the law, it being manifestly as impossible for the accused to prove that he did not know the law which he might be charged with breaking as for the prosecution to prove that he did know it. In like manner, a custom must be so universally accepted and acted upon that ignorance thereof by any person affected thereby is practically impossible.

Trade customs, strictly so called, and other special customs are only binding upon persons within the trade or locality to which the particular customs apply. There have been some attempts made by stockbrokers and others to hold outsiders responsible according to their own particular customs; but such attempts have always failed when brought to the test of a court, the judges invariably holding that the general public can only be bound by the public law.

We assume that all our readers are acquainted with such customs as are peculiar to their own trade, and have, therefore, only viewed the subject from a purely legal standpoint. There are no reasons to suppose that any unreasonable cus-

customs exist among the chemists and druggists; but if there were any such, they could not stand good in a court of law. If there should be any doubt as to a custom being strictly binding in the trade, that would be equally fatal to its validity. The very nature of a custom is opposed to an option whether it is to be binding or not, and, therefore, a custom must be compulsory in order to be valid. That it must not be inconsistent with the law is obvious, and it is equally clear that it must not be merely a recent innovation, but an immemorial adjunct of every contract or agreement entered into between members of the trade in their dealings in respect of such trade.

But notwithstanding all this, it is possible to exclude the custom of the trade by express agreement that it shall not apply to any particular contract. For the object of custom is only to make certain what is left unprovided for by the contract of the parties, and instead of relying upon the custom, they may make a definite agreement as to the terms arranged between them.

Particular customs are proved by evidence with one remarkable exception. Customs peculiar to the City of London are proved by a certificate of the Lord Mayor and Aldermen under the hand of the Recorder for the time being, and this certificate is admitted for the purpose of proving the custom instead of the sworn testimony of many witnesses.

OFFENSIVE TRADES, AND TRADES WHEREBY NUISANCES ARE OCCASIONED.

This subject has two aspects. A trade may be offensive to the owners and occupiers of property adjacent to the place where it is carried on, and the remedy may be merely by an action for damages, in respect of the depreciation in the value of such adjoining property, a remedy which is sometimes worse than the disease. Or it may cause a public nuisance which endangers the health or destroys the lives of Her Majesty's subjects within the influence of the deleterious exhalations arising therefrom, in which case the remedy is of a quasi-criminal nature.

We will first consider the cases in which a civil remedy is appropriate. And first of all, we must take notice of a class of cases not apparently within our strict limits, though our paper would be incomplete if we were to omit any mention of them. We allude to the case of trades excluded by restrictive covenants. Thus many trades are prohibited being carried on upon certain estates which would scarcely be considered offensive trades if they were not so styled in the covenants relating thereto. Whatever two persons (vendor and purchaser) agree to call offensive must be so considered in all future dealings with the property to which those covenants apply. Such covenants, however, will be construed strictly, and the prohibition will not be extended by implication to anything which is not clearly expressed. Thus, in a case where a purchaser of building land had covenanted that he would not allow any building which should be erected thereon to be used as a beerhouse, one of his tenants having subsequently obtained a licence for the sale of beer by retail, not to be consumed upon the premises, and an action having been brought for the supposed breach of covenant, it was held that there was a clear distinction between a beerhouse where people sat drinking after the manner of a public-house, and a beer-shop where the beer was simply sold in bottles over the counter and taken away to be consumed elsewhere, and that there had been no breach of the covenant not to allow a beerhouse upon the land.

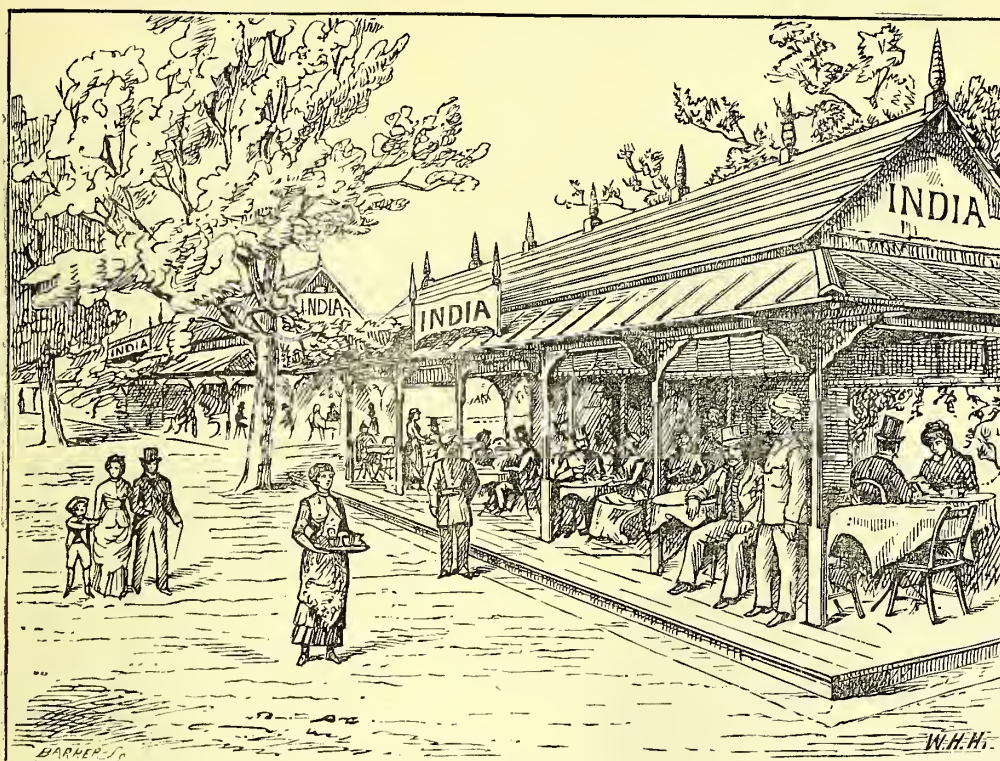
A trade occasioning a nuisance may either be one which causes a neighbouring house to be a less desirable residence, or it may endanger the stability of the adjacent house, as

steam-hammers and other engineering-works, &c. In the former class chemical-works occupy a conspicuous place. Of course, there must be such works, and therefore the trade is not unlawful; but when any noxious fumes or gases are evolved there must be sufficient precautions used to avoid injury to the adjacent houses and the inhabitants thereof, if any such there be. Many such works are erected in lonely places on this account; but houses spring up around them, the extent of the works having a very perceptible influence on the increase of inhabitants in the immediate neighbourhood. Then arises a question whether the nuisance occasioned by the works affords a good cause of action to the proprietors of the houses which are injuriously affected thereby. Very difficult is sometimes the decision of this question. Formerly it was supposed that if houses had been erected after the works, the owners having come to the nuisance they had no right to complain of its existence; but this rough-and-ready rule has become altogether exploded. When the houses were built the works might be so small and well managed as to cause very little inconvenience, but all kinds of manufactories have a tendency to expand to a degree which would have astonished our ancestors; and with increase of production will come an increase of the unpleasant consequences arising therefrom, unless improved modes of manufacture be adopted and additional precautions taken. Besides, the average Englishman of the present day is much more sensitive than were his predecessors, or than even he himself was when he was thirty or forty years younger. Fortunately, the resources of science have fully kept pace with the progress of refinement, so that our manufacturers are in no worse relative position than their ancestors. But in order to avoid any actions and injunctions, it has become necessary in crowded neighbourhoods to take all practicable means of avoiding the creation of a nuisance.

Every occupier of land, whether as owner or as tenant, is entitled to enjoy the property in such fullness as implies a right to be protected from anything which will diminish the salubrity, the safety, or the comfort previously enjoyed to such an extent as to reduce the value of that property; for he who reduces the value of his neighbour's property practically takes money from him without making any return to him, which cannot be permitted. In those cases where the plaintiff has gone to the nuisance, he ought to be in a position to prove that the nuisance has increased, and that such increase arises or has arisen from the negligence of the defendant. If there has been no increase of the unpleasantness he has no reason to complain; he knew what he was going to be exposed to when he erected his dwelling-house. The measure of damages in such an action ought to be the difference in value of the plaintiff's property caused by the business carried on by the defendant; but juries sometimes take exaggerated views, and, except in the case of gross excess in the amount of damages awarded, the Court is reluctant to interfere with what is strictly within the province of the jury to determine.

But the right to compensation is not confined to cases where the health or comfort of human beings is interfered with, or the value of house property diminished by the nuisance occasioned by carrying on a lawful trade. If the vapour or the smoke from a manufactory is so injurious as to destroy growing corn or grass in the country, or to damage the cattle in the adjacent fields, the proprietors of the works would be responsible in damages for the injury done. And many similar cases might be quoted.

If the nuisance is such as to be dangerous to the health of the public then a public nuisance is created, and for this there are express penalties imposed by the Public Health Act and other statutes, in addition to the general common-law right of every citizen to have his health and life protected against anything which may be done by any of his neighbours. The same remark applies to dangerous trades. If a man wishes to manufacture gunpowder, dynamite, or any other highly explosive substance, he must comply with the law regulating such manufactures, such regulations extending both to the locality and to the mode of management to be adopted in such factories.



HEALTH EXHIBITION.

INDIAN TEA.

THE engraving above is from photographs of the pavilions of the Indian Tea Districts Association, overlooking the fountains. They have been places of highly popular resort, and more than 150,000 cups of tea have been supplied to the public by the twenty picturesquely-dressed waitresses. The buildings originally stood in the Indian Court at the Fisheries Exhibition. They were given over for this purpose to Mr. Langdale, who erected them, almost at his sole expense, in their present situation. It was at first projected that a model Indian tea-garden, with plants and natives, should be established in the grounds, and Mr. Langdale was authorised by the Executive Council to carry out the idea. The time between February 6 last and the opening of the exhibition was too short, and we must wait for the Indian and Colonial Exhibition in 1886 to see the fulfilment of this novel scheme.

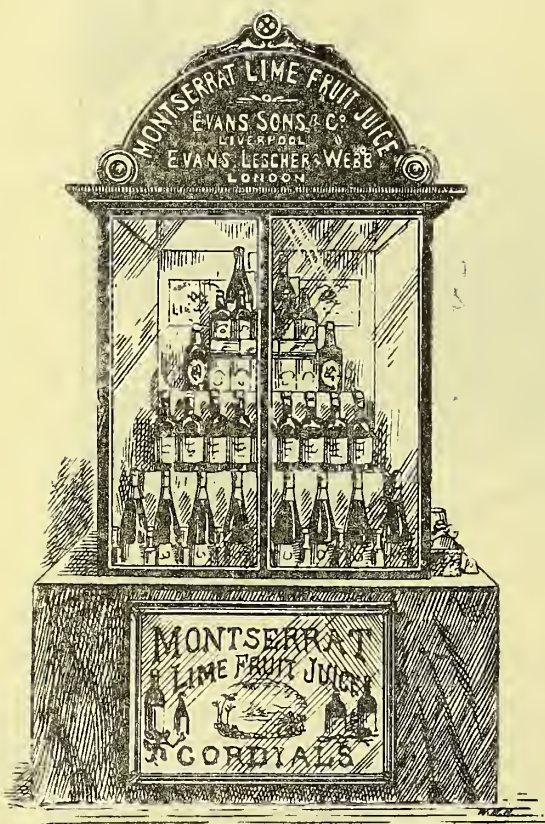
The Assam Tea Company, the oldest company devoted to tea planting, was established in 1840. In 1860 the outturn of Indian teas was about a million pounds, in 1864 three millions, in 1874 eighteen millions, and in 1883 sixty millions of pounds. The whole consumption of the United Kingdom in 1883 was 170 million pounds, so that India supplied more than a third. About fifty years ago the tea tree was discovered growing wild in the forests of Assam, which clothe the hills forming the boundary between India and China. It is now cultivated to the extent of 240,000 acres in the east, north-east, north-west, and southern districts of India, and in Ceylon. Manual labour in the preparation of the tea has been largely replaced by most ingenious machines for rolling the green leaf, firing, and sorting, which are exhibited in models, specimens, or drawings. A plantation formerly occupying 250 coolies now finds work for 50 only.

Indian teas are little known to the general public, as they

are used by the trade to blend with Chinese teas to give them strength, body, and flavour. Fully convinced that they need only be tasted by themselves to take at once the front rank, the Indian Tea Districts Association determined on a vigorous effort, at the head of which Mr. Langdale was placed. The pavilions illustrated above were erected for this special purpose, and have been patronised to an enormous extent. Every variety of flavour is found among Indian teas; those of Assam are strong and pungent, while more delicate teas are produced in the Hill districts, notably at Darjeeling and Kangra, Mr. Langdale being the accredited English agent of the planters in the last-named district. The Kangra Valley teas are packed in pounds and parcels of other sizes at the plantations, and are sent to this country in the usual chests. An advantage is thus secured not easily to be gained in any other way. When the tea arrives in this country the custom-house authorities allow it to pass without requiring that every chest shall be opened, as is the case with teas packed loose. This exposure to the air causes inevitable deterioration. Now not more than one case in a shipment is opened at Hay's wharf, where the Association's tea is bonded, and not more than one or two of the hundred packets it contains is broken. The Kangra Valley Tea Planters' Association, of which Mr. Langdale is a member as well as the representative, are specially anxious to secure the assistance of chemists in the distribution of their teas. Grocers are not likely to be very favourable to a movement for bringing teas straight from the plantation to the consumer, being much more interested in selling a blend of their own. Those chemists who have touched this line of business might certainly take up these particular teas, as there is a decided interest attaching to them.

A silver medal has been awarded to Mr. Langdale for infused teas, a silver medal to the Indian Tea Districts Association for tea, &c., machinery, and a bronze medal for samples of dry tea.

We are asked to state, and it seems fair to do so, that although a case of the Montserrat lime-fruit juice and cordials was at the Health Exhibition, it was admitted late, and on the express understanding that the samples would not come



before the jury. This explains the absence of that well-known brand from the list of awards. Our sketch above represents the very pretty case which contained these samples, and we may add that visitors had frequent opportunities of testing the quality for themselves.

INTERNATIONAL HEALTH EXHIBITION.

LIST OF AWARDS.*

THIS list was published as a special supplement to the *London Gazette* on Monday, October 27. The official list gives simply the name of the exhibitor, the number of the class in which appears the exhibit that has received an award, and the award. In this list, we state the general nature of the exhibit, as the official list does not say for what the awards are given.

Aikman, A. oatmeals, prepared barley, &c....B.
 Allen, F., & Sons. confectioners' machinery in motion....G.
 " cocoa, chocolate, and confectionery....B.
 Allen, James, & Son. Turkish hot-air baths, &c....S.
 Apollinaris Company (Limited). Apollinaris water....S.
 Ashworth Brothers....B.
 Austin Antiseptic Company. antiseptic appliances....B.
 Aylesbury Dairy Company....S.
 Baily & Co. filters, &c....B.
 Baker, Joseph, & Sons. mixing-machines, &c., bakers' and confectioners'....G.
 " baking....B. (2).

* G. Gold Medal. B. Bronze Medal. S. Silver Medal.
 S. I. Certificate of Thanks. D. I. Diploma of Honour.

Baker, G. M. B. disinfectant....B.
 Barker, Thos. invalid rusks, biscuits, &c....B.
 Barnett & Foster. machinery for manufacture and bottling of aerated waters....G.
 " ditto for maintaining purity of waters during manufacture....G.
 " ditto for prevention of accidents during manufacture and general arrangements....G.
 " ditto, patent, for bottling beers and ales....S.
 " screw-stoppered bottle....S.
 " filtering apparatus....B.
 " iced-drink fountain....B.
 Barrett, A., & Sons. hair and other brushes....S.
 Bateman, William H. disinfectants, &c....S..B. (2)
 Bellis, Thomas K. cups....B.
 Berk, F. W., & Co. Kemmerich's meat-extract....S.
 Billing, H. J., M.D. thymol disinfectant....B.
 Blaine, Lient-Geu, Sir Seymour, Bart., C.B. non-poisonous paints and plate-powder....S.
 Boake, A., & Co. Tuson's disinfectants....S.
 Bonthron, J. diabetic bread, &c....B.
 Boston Filter Company. filters....B.
 Brand & Co. essence of beef, &c....S.
 British and Foreign Mineral Water Company. aerated waters....B.
 British Patent Perforated Paper Company (Limited)....B.
 British Syphon Manufacturing Company. syphons....B.
 Broxburn Oil Company. shale-products, ammonia, &c....G.
 Cahos, Charles, Austria-Hungary. invalid biscuits, &c....G.
 Calvert, F. C., & Co. disinfectants....G.
 " toilet requisites....S.
 Carrick, Dr., Russia. Koumiss....G.
 Casella, L. P. meteorological instruments....G.
 Cetti, E. scientific instruments....B.
 Cheesebrough Manufacturing Company. perfumed luxur oil....S.
 " vaseline toilet preps....B.
 " vaseline disinfectants....B.
 Chiswick Soap Company. soft soaps....B.
 Christy, Thomas, & Co. incubators, &c....G.
 " new food-products, &c....S.
 Churchill, J. & A. publications....S.C.T.
 Clarke, Samuel. pyramid night-lights and food-warmers....S.
 Cleaver, F. S., & Sons. manufacture of toilet-soaps....G.
 Clutterbuck, Geo. chemical closet-cleaner and waste-preventer....B.
 Colman, J. & J. mustard....G.
 " mill for preparing mustard....G.
 Condry & Mitchell (Limited). disinfectants....G.
 Cope Brothers. cigarettes....B.
 Corbett, John, M.P. salt....S.
 Cording, George. indiarubber-clothing and invalid-appliances....S.
 Cresswell, R., & Co. sponges....S.
 Crossley Brothers. gas-engines....G.
 Davis, Joseph, & Co. apparatus for milk and water analysis....B.
 Douglas, William, & Co. chemical fire-extinguishers....B.
 Douulton & Co. dwellings, &c....G.
 " water-supply and purification....G..S. (8)..B. (2)
 " house-drains and ventilation....G. (3)..S. (4)..B. (2)
 " water-closets, &c....G. (2)..S. (2)
 " grates, stoves, &c....G..B.
 " art-work....G.
 " internal decorations....S.
 Droitwich Salt Company....B.
 Edmunds, James. "Ne plus ultra" feeding-bottle....B.
 Epprecht, H., Switzerland. Epprecht's food....S.
 Etzenherger, R., & Co. tea and coffee making machinery and still-room appliances....B.
 Farnworth, John K. domestic water-purifier....B.
 Field, J. C. & J. spermaceti and other candles....G.
 " samphire and other soaps....G.
 First Swiss Alpine Milk Exporting Company, Switzerland....B.
 Fleming, G. air-tight and lock corks....B.
 Freeman & Hildyard. baking-powder, &c....S.
 Fry, J. S., & Sons. chocolate and cocoa—various....B.
 Galloway, James. soda-water machinery....B.
 Gelatine Manufactory, Winterthur, Switzerland. gelatine for medical, scientific, and culinary purposes....S.
 Gibbs, D. & W. carbolated creasote and other disinfectants....S.
 " medicated and other soaps....B.
 Gosnell, John, & Co. brushes, toilet soaps, and other preparations....B.
 Graut, John. Scotch oatmeals, &c....B.
 Greenbank Alkali Works. packed chloride of lime....B.
 Gridley & Co. isinglass....S.
 Halliday, J. filters....B.
 Hansen, Chr., Deumark. batter colouring and rennet....B.

Hartin's Crimson Salt Company....S.
 Hayward Tyler & Co.....soda-water machinery....G.
 " "water purification and supply....S..B. (4)
 " "closets, &c.....S.
 Hendrie, Robert, & Co.....toilet and other soaps....S.
 Hignett Brothers & Co.....tobacco and snuffs....G.
 Hllmer, Otto, Germany.....egg, butter, and milk tester....B.
 Huntley & Palmer.....biscuits....G.
 Hutchinson & Co.....Ceylon tea and coffee....B.
 Indestructible Paint Company (Limited)....G.
 Indian Tea District Association.....tea machinery....S.
 " "teas, infused and dry....B.
 Irish, Symons & Co.....gas-purifying compound....B.
 Jaeger's Sanitary Woollen System Company (Limited).....Clothing....G.
 Jeffrey & Co.....non-poisonous wall-papers....G.
 "internal decorations....G.
 Johnson, S. H., & Co.....filters and machinery....S..B.
 Jones, Frederick, & Co.....silicate cotton....G.
 Jowett, Wm. M., & Co.....filters....B.
 Judson, Daniel, & Son.....filters....S.
 Kent, George.....filters....G..B.
 "dwellings....S.
 "sick-room requisites....B. (2)
 "albo-carbon burners....B.
 Knight, John, & Sons.....household and toilet soaps....G.
 Langdale, E. F. (Indian Tea Districts Association).....teas, infused....S.
 Lawrence & Co. (Limited).....water-filtering....G.
 "condensing and concentrating machinery....S.
 Leveson & Sons.....invalid couches, &c....S.
 Liebig, Baron.....cocoa, chocolate, and foods....S.
 London Society of Public Analysts....D.H.
 Lyon, F.....carbolic soap and other disinfectants....B.
 McDougall Brothers.....disinfectants, &c....G.
 "toilet and other soaps....B.
 McIlroy, T.....invalid appliances....S.
 Mackey, Mackey & Co.....various disinfectants....G.
 Maigneu, P. A.....filters for water....G.
 "softening water....G.
 "filters for wines, chemicals, &c....S.
 "prevention of danger to health in trades....S.
 "bathing requisites....B.
 Maltine Company (Limited)....G.
 Marks, Henry, & Sons.....sponges....S.
 Mattoni, Heinrich, Austria-Hungary.....mineral waters....B.
 Mayer & Meltzer.....invalid's chair and couch....S.
 Meihe, I. R....."Anti-microbe" disinfectant....B.
 Mellin, G.....Mellin's food....B.
 Moir, John, & Son (Limited).....dietetic preparations....G.
 Mottershead & Co.....Benger's foods....G.
 Muller, William.....unsweetened condensed milk....S.
 National Chemical Company....packed chloride of lime....S.
 Negretti & Zambra.....meteorological instruments....G.
 New Carbolic Sanitary Company.....disinfectants....S.
 Newson, W., & Co.....Indian condiments, curry, &c....B.
 Osterode Flannel Company.....hygienic flannel....S.
 Oswald, W. R.....water filters....B.
 Overbury, Henry.....sulphur disinfectant....S.
 Paton & Charles.....soap....B.
 Peek, Frean & Co.....biscuits....G..S.
 Pfeleiderer, Paul.....bread-making machines....S.

Phillips & Co.....tea, coffee, and cocoa....B. (2)
 Pocock Brothers.....tubular water-bed....G.
 "boot-making machinery....G.
 "boots and shoes....S.
 Pott, R. & N.....vinegars, models, &c....S.
 Potter & Clarke.....herbs for culinary purposes and composition cordial....B.
 Potter, T. G.....oil and spirit kitcheners and vapour baths....S.
 Price's Patent Candle Company (Limited).....candles, night-lights, glycerine, &c....G.
 " " " "food-warmers....G.
 " " " "toilet soaps....S.
 Rawlings, H. D.....aërated waters....B.
 Richardson, John, & Co.....collection of incombustible clothing....G.
 Rimmel, E.....toilet soaps, &c....G.
 "disinfectants....S.
 Robb & Co.....infants' food, &c....B.
 Roberts, Thomas.....self-cleaning filters....B.
 Rose, L., & Co.....lime-juice and preparations....B.
 Rowe & Co.....soaps....G.
 Russ-Suebard & Co., Switzerland.....chocolates....S.
 Sabine & Richardson.....Indian teas....B.
 Sage, Frederick.....reflecting lanterns for shops....B.
 Sales, Pollard & Co.....tobacco and cigarettes and machinery....B. (2)
 Salmond, David.....hard and soft soaps....G.
 Salutaris Water Company.....beverages....B.
 Sanitary Paper Company.....toilet paper....B.
 Sanitas Company (Limited).....disinfectants....B.
 Savory & Moore.....peptonised foods....G.
 Schweppe, J., & Co.....mineral waters....B.
 Scott, A. & R.....Millothian meals, &c....B.
 Self-opening Tin Box Company....B.
 Sellers, John.....soaps, &c....B.
 Shilton, A. J....."Affinitan" disinfectant....B.
 Silicated Carbon Filter Company....S.
 Slazenger & Sons.....waterproof garments, air and water bells....S.
 Smith, T. & H., & Co.....coffee essences, &c....B.
 Spencer, J.....magnesia water filter....G.
 Spon, E. & H. W.....publications....S.C.T.
 Spongy Iron Domestic Filter Company....S.
 Spratt's Patent.....biscuits....B.
 Squire & Sons.....invalids' food....S.
 "respirators....B.
 Talbot, T., & Co.....mineral waters....B.
 Thompson, H. A., & Son....."Purifier" laundry fluid....B.
 Tidman & Son.....sea-salt....B.
 Tilbury, W. R., & Co.....tooth-brushes....B.
 Torrance, W. H.....rucks for infants, &c....B.
 Townson & Mercer.....scientific apparatus....S.
 Tulloch, W., & Son.....cocoa, foods, &c....B.
 Van Abbott, G.....medicated bread, biscuits, &c....B.
 Vitali, E., Italy.....eucalyptus preparations and wines....S.
 Watson, W., & Sons.....thermometers, &c....B.
 Watts, George.....French polish reviver....B.
 West Central Sanitary Engineering Company.....disinfectants, &c.S; also 1 G., 4 S., and 2 B. in other classes.
 Williamson, Magor & Co. (Indian Tea Districts Association)....G.
 Wills, W. D. & H. O.....tobaccos and cigars....S.
 Woollams, William, & Co.....non-arsenical wall-papers....G.
 Woolley, James, Son & Co.....sanitary rose-powder....S.
 Yeatman & Co.....yeast, powder, &c....S.



THE MEDAL OF THE INTERNATIONAL HEALTH EXHIBITION, 1884.

EXHIBITION OF AERATED-WATER MACHINERY.

THERE was an excellent collection of aerated-water machinery at the Brewers' Exhibition, held at the Agricultural Hall from October 20 to 26, and the exhibition seemed to be well patronised. There is no doubt that there is a tendency for the trade in aerated waters to find its home among the brewers, and it is for the more enterprising of the chemists and druggists to arrest the progress of this possible deterioration.

In this place we have simply to describe so much of the exhibition as seemed to have a special interest for aerated-water makers.

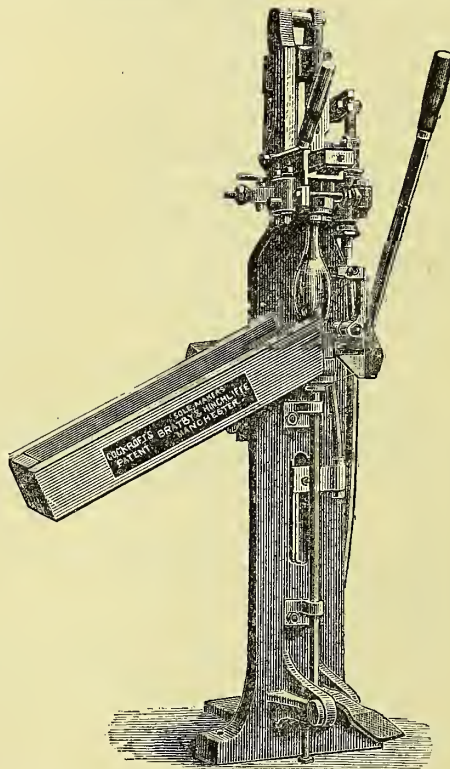
Messrs. Barnett & Foster occupied a very prominent position at the entrance to the hall. They were probably the largest exhibitors. A considerable part of their collection was taken up by Mr. Foster's new beer-bottling process, which was shown in practical working by Messrs. Chapman & Wells, of Deptford. The beers were aerated and bottled in Foster's patent screw-stoppered bottles at the Exhibition, and in that condition were sent out to Messrs. Chapman & Wells's customers. The machinery used for this purpose has, we are told, been successfully adopted during the past year by cider bottlers, and for the conversion of still into sparkling wines, not only in England but likewise in Australia, California, at the Cape, and in other parts of the world.

Besides showing this interesting process in full operation, Messrs. Barnett & Foster had on view a very extensive show of their aerated-water machinery, ranging from their "Petite" plant for hotel and private use to their "Mammoth" plant, with silver-plated and highly burnished cylinders. These latter machines are constructed on the "Niagara" principle, but Messrs. Barnett & Foster make machinery on the original principle also. Their "London-made" syphons, with improved patented foot, by which drippings from the spout are caught, and their numerous appliances for the trade made up a really imposing display.

Messrs. Bratby & Hinchliffe seemed very busy all through the continuance of the exhibition showing their various novelties. Amongst these should be mentioned a complete "chemist's plant," introduced for the first time, which they offer at 28*l.*, and which they say is capable of manufacturing 100 dozen of aerated waters per day. This firm also showed a new anti-atmospheric gas generator and gasometer combined, which automatically generates pure gas to the exclusion of atmospheric air. It is entirely self-acting, requiring only to be kept supplied with whiting, an electric bell calling attention to the fact of the whiting being exhausted, so that the bottler may proceed with other work until he hears the warning.

Another novelty exhibited by Messrs. Bratby & Hinchliffe was Cockcroft & Bratby's new patent bottling-machine, which was shown at work. This is illustrated in the annexed engraving. The patentees claim for this machine all the advantages possessed by steam bottling-machines without their disadvantages. The machine is fitted with two valves (worked by one movement of the filling lever), one to admit the aerated water into the bottle, and the other to allow all the atmospheric air that was in the bottle to escape. The air-escape valve is opened before and closed after the aerated water valve, therefore the pressure in the bottle is never equal to that in the cylinder, which makes it impossible for the aerated water to absorb any of the atmospheric air that was in the bottle, but it must all be expelled while the bottle is filling. The machine is also fitted with a syrup-pump of the most simple construction, which is worked by the corking lever, and the syrup cannot be forgotten or missed. The bottler has only to handle the bottle once, which is to put it under the machine; when it is filled it discharges itself down the shoots to the wire, two wire being required to keep the machine at work—50 dozen large or 60 dozen splits being filled per hour without hurrying. The machine is fitted with

an improved side-compressing motion for squeezing and softening the corks (each cork being reduced to three-fourths of an inch in diameter) before being placed in the bottle, thus saving undue strain on the bottle neck, at the same



time making them much easier to be drawn. The machine is adapted for bottling beer or wine after aerating, and for putting on the corks the mushroom or bulbous head.

Mr. Favarger had a remarkable show of two immense generators, in which gas is produced automatically. This was a very interesting exhibit, and showed the working of the Mondollot principle to perfection, acid being supplied to the acid-box and conveyed by a long bent tube to the generator; the atmospheric pressure outside and the gaseous pressure inside are so balanced that acid is only admitted as the gas is withdrawn.

Mr. Wilcocks, of Bath, had a number of his finely-made machines on view, and Mr. Geraut showed the syphons and seltzogenes for the manufacture of which he has so long been famous, as well as soda-water machinery from his factory.

Messrs. W. J. Bush & Co. showed all the varieties of liqueur and other essences for which they are so famous, as well as all drugs and chemicals required in the trade.

Messrs. Stevenson & Howell had a very showy pavilion around which they exhibited all the chemicals and flavouring agents which aerated-water makers and publicans are likely to require. Inside we had the pleasure of tasting a bottle of lemon squash prepared from an essence of lemon squash produced by this firm. This is a beverage which ought to take its place among standard summer drinks.

Soluble essences, chemical fruit syrups, heading, and many chemicals were shown by Messrs. Lorimer & Co.

A stall was devoted to the "phospho-citric acid" which has been lately recommended to the trade by Messrs. Hassall & Co. as a cheap substitute for citric acid. Our innocent question as to how it was made did not elicit much information.

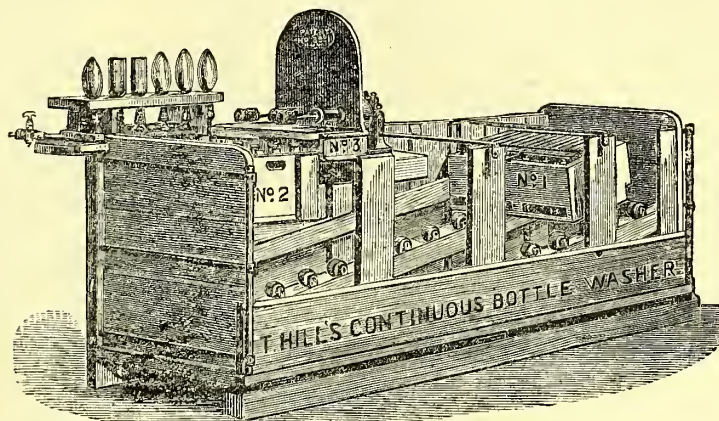
Mr. Hay, of Hull, was on hand with his perfectly miscible concentrated essence of ginger and other essences, which we did not find beaten by any other maker.

Messrs. Hill & Jackson, of Hull, exhibited a new bottle-washing apparatus (Hill's patent), which would be very con-

venient in large factories. It is a large trough, which has to be filled with water. At one end, two dozen partitioned cases are placed on rails under the surface of the water.

is very compact, and it is quite possible for two youths to unwind and clean fifty dozen bottles per hour.

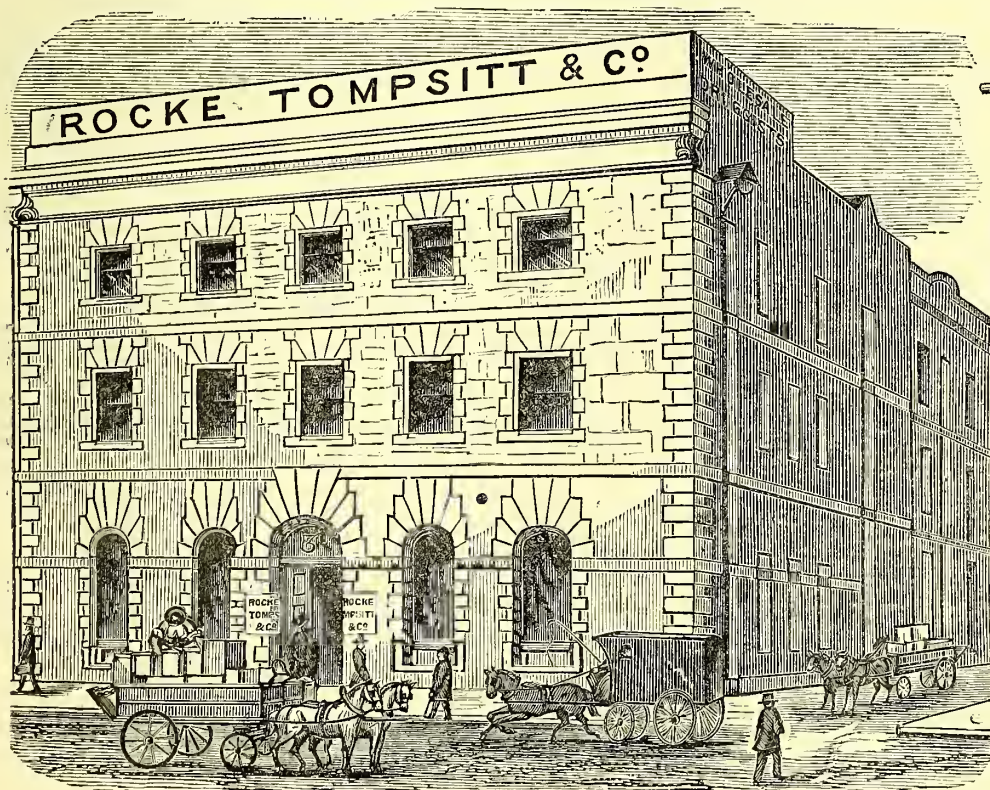
Mr. T. H. Ryall, of the Wool Exchange, Coleman Street,



There is space for five such cases. All the bottles, therefore, get a good soaking. An operator at the other end of the trough receives them, and as fast as he can places the bottles first on revolving brushes and afterwards on rinsing jets. All

showed a good variety of variously stoppered bottles, with numerous appliances for mineral-water makers, and at his stall were also exhibited samples of Cibil's Fluid Extract of Beef, which has been popularised at the Health Exhibition.

A MELBOURNE DRUG WAREHOUSE.



WE copy from the *Australasian Sketcher* the view of the new wholesale drug warehouse at Melbourne, which accompanies this notice. This firm have rapidly pushed their way to the front, and, as was announced in our Australian correspondence last month, they have lately bought the building and ground shown in the engraving. The building is situated at 3 Flinders Street, West, opposite the St. Kilda

end of the Hobson's Bay railway station. It is built of blue-stone in three flats, and has a frontage of 60 feet to Flinders Street, with a depth of 100 feet in Flinders Court, where are doorways for the receipt and delivery of goods. The front portion of the ground floor is devoted to the sundry and patent medicine trade, with suitable shelving accommodation for a complete stock of this description of goods. Three massive

cedar counters and a number of handsome glass show-cases furnish this room, and give a very attractive appearance. On this floor, too, are the private offices of the principals, with counting-house accommodation for eight clerks. The counting-house communicates with the entering room, where goods are checked and entered prior to their delivery to the carts or removal to the packing departments above. On the first floor is the drug room, divided into wet and dry departments, and behind it is the country packing department. On the top, covering the whole area of the building, is the store-room for bulk packages. A hydraulic lift and an American hoist are both connected with this floor. Besides these rooms, a special one is provided for the convenience of customers who may be visiting Melbourne, and all the newest arrangements are adopted for the despatch of business. Mr. F. M. White, architect, designed the building and superintended its construction.

RECTIFICATION OF THE REGISTERS

OF PHARMACEUTICAL CHEMISTS AND CHEMISTS AND DRUGGISTS.

WE are requested by the Registrar to publish the following list of persons whose names will be erased from the registers unless they communicate with him on or before December 30 next.

[Two registered letters have been sent to each address given below, in accordance with the regulations of the Pharmacy Act, 1868, without eliciting a reply.]

Those marked () are Pharmaceutical Chemists.*

Abbot, Ann	St. Helens, Lancs.	Bright, Thomas	11 Lisson Street, London, N.W.
Ackroyd, Thomas	Luddenden Foot, near Halifax, Yorks.	Broadbent, George	Shepley, Yorks
Adams, Wm. Francis	Market Place, Longridge, Staffs.	Bromfield, John	39 Orwell Street, Great Grimshy
Agger, Joseph Edward	Watton, Norfolk	Brown, George	1 Upper High Street, Winchester
Alexander, William	Edinburgh	Brown, James	Old Deer, Aberdeenshire
Allen, John	44 King Street West, Stockport	Brown, John	Market Square, Hanley, Staffordshire
*Anderson, Alexander	Hong Kong Dispensary, Hong Kong	Brown, Thomas Bellison ..	124 Wheeler Street, Birmingham
Anderson, Geo. Anthony ..	6 Lower Tulse Hill Brixton, Surrey	Back, Arthur	Chasetown, Staffordshire
Conlson		Barkinslow, Charles	Stallingborough, Lincolnshire
Ash, James Freer	7 Holloway Head, St. Thomas's, Birmingham	Butler, William	Sutton-in-Ashfield, Notts.
Ashworth, Robert John ..	122 Bank Top, Blackburn, Lancs.	Cant, Richard	11 Snsex Street, Nottingham
Atherton, William	225 West Derby Road, Liverpool	Capell, Henry	Floore, near Weedon, Northamptonshire
Atkinson, William	10 Columherie, St. Helier's, Jersey	Capell, Thomas	Floore, near Weedon, Northamptonshire
Attenborough, Edmund ..	Misterton, Notts.	Capstick, John William ..	Rydal Cottage, Rydal Road, Lancaster
Ayres, John	3 Clifford Street, Eccles New Rd., Manchester	Caswell, Thomas George ..	1 Coleherne Ter., W. Brompton, London, S.W.
Ayres, Richard	Cattle Market, Bridgwater, Somerset	Chadwick, William	27 Methley Street, Kennington, London, S.E.
Bahe, William	146 Mill Street, Liverpool	Challinor, Sam. McMillan ..	12 South Road, Waterloo, near Liverpool
Bailey, Edward Smith	Wellington, New Zealand	Champley, James	35 Westborough, Scarborough
Bailey, Isaac	37 St. Mary's Road, Hastings	Chesworth, Martha	30 Porter Street, Butler Street, Manchester
Bake, Mary	178 York Street, Hulme, Manchester	Chesman, Henry	40 Hampstead Road, London, N.W.
Ball, Henry Simpson	St. John the Evangelist Rd., Highgate, Lon. N.	Chick, William	Thorn Street, Reading
Barber, Edward Anderson ..	68 Hercules Buildings, Kennington, Lon., S.E.	Chitty, Charles	Titchfield, Hants.
Barclay, John	195 High Street, Montrose, N.B.	Chitty, Frederick	Titchfield, Hants.
Bardsley, Joshua	15 Warwick Street, Glasgow, N.B.	Clark, Edward Howell	Bury St. Edmunds
Barland, John Watling	24 West Lauriston Place, Edinburgh	Clarke, Charles	Welling, Kent
Barnes, Frederick	224 Roman Road, North Bow, London, E.	Clifton, John Henry	Star Mills, Clementhorpe, York
Bass, Charles William	81 Hatton Garden, London, E.C.	Cokayne, James	Nottingham Road, Stapleford, Nottingham
Bateman, Fredk. Augustus ..	St. George's, Norwich	Coker, Owen Cole	15 Portland Square, Plymouth
Newton		Coleman, Friend	High Street, Forest Hill, Kent
Baumgarten, Adolph	520 Oxford Street, London, W.	Conway, John Jones	Chreh Street, Flint
Beal, Richard Reynolds	29 Southborough Rd., South Hackney, Lon., E.	Cook, James	Berry Lane, Longridge, Lancs.
Beaumont, Geo. Godfrey	1 Cheetham Street, Lord St., Preston, Lancs.	Cooper, Samuel Davies	Acton, Staffordshire
Beaumont, Mary	7 Leading Post Street, Scarborough	Cornish, John	Ottery St. Mary, Devon.
Beecham, John	Metheringham, Lincolnshire	Coster, Lawrence Henry ..	10 Shrewsbury Road, Paddington, London, W.
Beedle, Joseph	73 Hunslet Road, Hunslet, Leeds	Critchley, John	College Villa, Longridge, near Preston, Lancs.
Bell, James Alexander	43 Shaw Street, Greenock, N.B.	Crocker, Henry Radcliffe ..	Weston Road, Brighton
Bell, William	4 Market Place, Carlisle	Crookes, Joseph	65 Lord Street, Etnaria, Staffs.
Best, Charles	Woodlesford, Yorks.	Crosley, Benjamin Wilson ..	Fenton Vne, Woodhouse Lane, Leeds
Bibby, Henry	140 Market Street, Dalton-in-Furness	Cross, John	1a Griffin Terrace, Fairmead Road, Holloway, London, N.
*Blake, Charles	Sutton-in-Ashfield, Notts.	Cullen, Charles	Cheapside, Market Place, Nottingham
Blanc, Gilbert	Mauritius	Curtis, Robert	133 Oxford Street, London, W.
Blanshard, Thomas	58 Hanover Street, Liverpool	Damant, Arthur Alfred	69 Wheeler Street, Birmingham
Blunt, George	34 King Street, Dudley, Worcestershire	Dangerfield, Edward	14 Upper Parliament Street, Liverpool
Bond, Charles	17 Blakeholok, Kidderminster	Davies, Arthur	12 Richmond Road, Bayswater, London, W.
Bond, John	Great Yarmouth	Davies, Frederick	28 Park Street, Bristol
Booth, Charles		Davies, Thomas	229 Park Road, Liverpool
Booth, John Lee	Glossop, Derbyshire	Davies, Thomas	26 St. George's Place, Hyde Park Corner, London, S.W.
Borman, John Henrie	192 West Street, Dunstable, Beds.	Davis, Oliver	97 High Street, Ventnor, Isle of Wight
Bonilton, Joe Seels	1 Edward Street, Meadow Street, Sheffield	Day, Richard	Linskill Terrace, North Shields
Bonrne, Charles Matthew ..	41 West Street, Boston, Linco.	Day, William Westley	14 Upper Parliament Street, Liverpool
Kempsey		Deil, William Mark	2 Macdise Rd., W. Kensington Park, London, W.
Bowen, Thomas Henry	178 Adrian Terrace, Finsborough Road, West Brompton, London, S.W.	Dinnis, John	20 West Hill Road, Brighton
Bower, Charles	Low Moor, North Bierley, Yorks.	Dison, Frederick	Twickenham Green, Middlesex
Bradbury, Charles	Lytham, Lancs.	Downward, Charles Herbert	Sun Street, Ulverston, Lancs.
Branson, Henry Albert	55 Old Town Street, Plymouth.	*Dnn, Casimir Theodore	Mauritius
Breckon, Hugh Scott	15 Flourgate, Whitby	Ainé	
Briggs, George Jeremiah ..	60 Market Place, Hull	Duncan, John Lyons	127 Park Road, Toxteth Park, Liverpool
		Duncombe, Wm. Pamcefort	7 Leading Post Street, Scarborough
		Dunmore, Edward	81 Malden Road, Kenitsh Town, London, N.W.
		Dunning, Thomas	Newmarket, Suffolk
		Dunsford, W. Henry	18 Crescent, Jewin Street, London, E.C.
		Dutton, George Frederick ..	225 Bristol Street, Birmingham
		Dyson, George William	57 North Street, Leeds
		Edge, Robert	314 Deansgate, Manchester
		Edwards, Chas. Manning ..	129 Handcroft Road, Croydon
		Deles, John Westmacott ..	Spring Villa, Church Rd., Bexley Heath, Kent
		*Ekins, Charles	12 Leconfield Rd., Highbury New Pk., Lon., N.
		Edridge, James Henry	19 Market Place, Great Yarmouth
		Elhott, Joseph William	6 Lower Woodbine Street, South Shields
		*Ellis, Henry Brook	4 Trinity Terrace, East Finchley, London, N.
		Ellis, James	Bracknell, Berks.
		England, William	Percy Lodge, Waverley Road, Southsea, Hants
		Evans, John James	Fern Villa, Fynonau Terrace, Swansea
		Evans, Walter Sharp	London
		Evans, William Sharp	141, Great College St., Camden Tn., Lon., N.W.
		Everitt, Arthur	141 Great College St., Camden Tn., Lon., N.W.
		Faraker, John Joseph	10 Palace Plain, Norwich
		Farrett, William Barrett ..	Michael Street, Peel, Isle of Man
		Field, Charles	1 Pier Terrace, Lowestoft
		Finch, John	Casualty Hospital, Chatham
		Findlay, James	150 High Street, Cheltenham
		*Fisher, Henry Christopher	24 Park Terrace, Regent's Park, Lon., N.W.
		Fisher, Isaac	Otley, near Leeds
		Fisher, Thomas	Otley, Yorks
		*Fisher, William Henry ..	15 Seething Lane, London, E.C.
		Fleming, Edward Blake ..	20 Grove Road, Wanstead, Essex
		Foster, James	32 Furnace Hill, Sheffield
		Foster, William	Princes Risborough, Bucks.
		Frampton, Nelson	Smethwick, Staffordshire
		Franciosi, Eugene Augst. de	10 Victoria Gardens, Notting Hill, Lon. W.
		Fraser, Joseph	19 Abbey Road, St. John's Wood, Lon., N.W.
		Frewen, Charles Andrew ..	188 Grange Road, Bermondsey, London, S.E.
		Gardiner, Bruce Herbert	2 Hoxton Square, London, N.
		John	
		Garrad, William	Gravesend, Kent
		Garratt, John Colman	9 Anglesea Terrace, St. Leonard's-on-Sea
		Garratt, Samuel	9 Anglesea Terrace, St. Leonard's-on-Sea
		Gee, Samuel	Blue Pits, Lancs.
		Gibling, William	6 Alverton Terrace, Penzance
		Gilbert, Sydney	Market Place, High Street, Wincanton
		*Gill, Levi John	Claremont Cottage, George Place, Greenwich
		Girdler, George Toussaint	Morden Road, Merton, Surrey
		Goldsmith, Joseph Lawder	3 Bedford Place, Hamstead Road, Hands- worth, Birmingham

- Goodacre, John William .. 80 Lamb Lane, Bradford, Yorks.
 Goodlad, James .. 53 Bimhill Row, London, E.C.
 Goodrick, John .. 8 Ashley Terrace, Sussex Street, Winchester
 Gorton, John George, jun. 480 Bethnal Green Road, London, E.
 *Goulden, Edward Baker .. 45 Abbeygate Street, Bury St. Edmunds
 Grace, Charles .. 1 Russell Terrace Portswold, Southampton
 Graves, John William .. 14 Edward Street, Deptford High Street, Kent
 Greaves, Edward Harrison 68 Lambeth Road, London, S.E.
 Green, Edward .. The Green, Stallham, Norwich
 Green, James .. Bath
 Green, John Alfred .. 282 Kensington Road, London, S.E.
 Gregson, James Kenyon .. 1 Church Street, Blackburn
 Griffiths, Benjamin .. 6 Commercial Road, Newport, Mon.
 Griffiths, Joseph .. 35 Waterhouse Street, Everton, Liverpool
 Griffiths, Thomas .. 2 Newport Road, Barnstaple, Devon
 Groom, Charles Frederick 27 Hawley Rd. Kentish Town Rd, London, N.W.
 Ground, William Davie .. Dispensary, Gainsborough
 Guest, Frederick William 43 Hunter St., Brunswick Sq., London, W.C.
 Guest, George Frederick .. 1 Heath Villas, Chapel Rd., Bexley Heath, Kent
 Haddock, Job .. Newton-le-Willows, Lanes.
 Hall, George .. Felling, Durham
 Halstead, Harry .. 21 Back Lane, Blackburn, Lanes.
 Hamilton, Wm. Johnstone 257 Saracen Street, Possil Park, Glasgow, N.B.
 Hanbury, William .. 22 Copperas Hill, Liverpool
 Hancorn, John Thomas .. Fore Street, St. Mary Church, Torquay
 Hannath, T. Woodmaney .. Market Place, Great Grimsby
 Harrington, Thomas .. Thorssett, near New Mills, Derbyshire
 Harrison, John .. 26 St. Leonard's St., Bromley-by-Bow, Lon., E.
 Hart, James .. 3 St. Mary's Road, Canbury, London, N.
 Hartle, Walter .. Howard Street, Derby
 Harvey, Edward .. Market Place, Wednesbury, Staffordshire
 Hassall, Elijah .. 123 High Street, Stalybridge, Cheshire
 *Haworth, Benjamin Hy. .. Yarnburgh Street, Whalley Range, Manchester
 Hawthorne, Charles Oliver 16 Bloomfield Place, Smith Street, Hillhead, Glasgow
 Hay, Charles .. 23 Queen Square, Leeds
 Hay, Henry Scott .. Athole Street, Dnnkel, Perthshire
 Heald, John Fenton .. Mount Pleasant, Wakefield
 Heaps, James .. 3 Commercial Road, Halifax, Yorks.
 Heely, Frederick .. 4 Chesterfield St., King's Cross, London, W.C.
 Henchley, Joseph Richard 89 New Church Road, Camberwell, Lon., S.E.
 Henderson, Walter .. High Street, Sandbach, Cheshire
 Herbert, Samuel .. 13 King's Road, Clifton, Bristol
 *Hetherington, M. Luther Circular House, Commercial Road, Bourne-mouth
 Hill, Henry .. 138 Islington, Liverpool
 Hill, Walter .. 28 London Road, Lowestoft
 Hill, William .. Downs, Hetton-le-Hole, Durham
 Hindhaugh, Richard .. Ayres Terrace, North Shields
 Hislop, Thomas .. Manchine, Ayrshire
 Hobson, Frederick Eland .. 1 Hill Street, Richmond, Surrey
 Holdcroft, George .. New Market Place, Beccles, Suffolk
 Holloway, Joseph .. High Street, Tutbury, Staffs.
 Holmes, John .. 42 Marsh Lane, Leeds
 Holmes, Samuel .. 63 Upperthorpe Road, Sheffield
 Hope, Joseph .. Ashley, Staffordshire
 *Hopwood, Thomas Smith 8 Greenside, Richmond, Surrey
 Hornby, Charles Haycock 13 Lower Hillgate, Stockport
 Horsman, Arthur .. 149 Kennington Lane, London, S.E.
 Howes, John Manning .. 45 High Street, Worcester
 Hubshmann, Emil .. 34 Leman Street, London, E.
 *Hudson, John William .. Holly House, Hampton Road, Birmingham
 Humphrey, Raphael Chas. 20 Devereux Court, Temple, London, W.C.
 Humphrey, Thomas Brigstocke 55 Fore Street, London, E.C.
 *Hunter, John .. 5 Eaton Rise, Ealing, Middlesex
 Hutchinson, Joseph .. Ivy Cottage, The Green, Matlock, Derbyshire
 Ing, Edwin Robert .. Swindon, Wilts
 Inkley, Jesse .. Fore Street, Shaldon, Teignmouth, Devon
 Jackson, David .. Market Weighton, Yorks
 Jackson, John Lawson .. 18 Stockport Road, Manchester
 Jeeves, Edward .. 1 Marnion Place, Southsea
 Jeffs, Hubert .. 141 Drury Lane, London, W.C.
 Jenkinson, Jno. Hy. Dixon Gleadless, Sheffield
 Johnson, Frederick .. 22 Shakespere Villas, Shakespere Street, Nottingham
 Jolley, John .. 16 Hanover Square, Bradford, Yorks.
 *Jones, Edward .. 81 Talbot Road, Bayswater, London, W.
 Jones, George Henry .. 7 Market Square, Hanley
 Jones, John Walter .. 24 High St., Blaenau Ffestiog, Merionethshire
 Jones, Owen .. Pen y Cefn, Camarvonshire
 Jones, Richard .. Hadley, near Oakengates, Salop
 Jones, Robert .. 15 Derby Road, Kirkdale, Liverpool
 Jones, Thomas .. Abercromby, Glamorganshire
 Jones, William Forsyth .. 60 Hereford Road, Bayswater, London, W.
 *Jonie, John Samuel .. High Street, Buxton, Derbyshire
 Keeling, John Clough .. London
 Kemp, Edwin Richard .. Fleet, Lincolnshire
 Kennedy, John Richard .. 50 St. Leonard's Road, Poplar, London, E.
 Kershaw, Joseph Henry .. 1 High Street West, Glossop
 King, William .. Northumberland Court, Newcastle-on-Tyne
 Kirk, Robert .. 2 Brockleton Place, Nelson Street, West Greenock N.B.
 Knowles, Richard .. Northcote Rd., near Cemetery, Preston
 Laey, Benjamin Walker .. London
 *Lamuse, Louis A. .. Mauritius
 Landeck, Samuel de Boyse 91 Vyse Street, Birmingham
 Langford, Wm. Stockdale .. Nayland, Colchester
 Large, Henry .. Clifton Square, Lytham, Lanes.
 Lathbury, Robert .. 40 Castle Street, Liverpool
 Lavers, Henry Richard .. 14 Chatham Place, Paragon Road, Hackney, London, E.
 *Lawrence, Henry .. Godalming
 Lawson, Robert ..
 Lewis, William Dyer Hay 21 Paddington Street, London, W.
 Lissaman, Thomas .. Alton Hall, Allesley, Coventry
 Litchfield, William .. 50 High Street, Longton, Staffordshire
 Logan, Francis .. High Street, Knighton
 Lowe, John .. 294 Old Kent Road, London, S.E.
 Lowe, John Richard .. 294 Old Kent Road, London, S.E.
 Lowth, William Spaven .. Newport, near Brough, Yorks
 Luff, Henry Thomas .. 42 Chapel Street, Woolwich, Kent
 Lumsden, James .. Thorndale, Peterhead, N.B.
 Mabbott, William .. 19 Burbury Street, Birmingham
 McConachy, John .. Hagley Street, Halesowen, Birmingham
 Macdonald, John .. 7 Roslin Street, Regent Road, Edinburgh
 Macewan, Wm. Morrison .. 112 Gloucester Street, Kingston, Glasgow
 McGruer, John .. 115 Sister Street, Caltan, Glasgow
 MacKay, Alexander Fraser 18 Whitehill Street, Dennistoun, Glasgow
 *MacKenzie, Henry .. Edinburgh
 McLean, John .. 11 Clifton Road, Paddington, London, W.
 Maconachie, James .. 183 Cowaddens Street, Glasgow
 Mann, Edwin .. 16 Croft Street, Lincoln
 Marjason, John Morris .. Ashley Cottages, Denmark Street, Camberwell, London, S.E.
 Mark, George .. 33 Penrose Street, Plymouth
 Marsb, William Mauns .. Sevenoaks, Kent
 Marshall, John .. Monmouth
 Marston, George Henry .. 2 Swiss Terrace, Forest Hill, Kent
 Martin, Henry Ward .. 35 Raglan Road, Woodhouse, Leeds
 Masterman, Robert .. Luddenden Foot, York
 Masters, Henry Joseph .. 22 Amptill Street, Bedford
 Mandson, Joseph Walker .. Parkwood Springs, Sheffield
 Meager, Richard George .. London
 Messer, Josiah .. 133 Oxford Street, London, W.
 Miller, Septimus John .. Crooks Moor Road, Sheffield
 Mills, William Peter .. Macclesfield
 Molyneux, Henry .. 38 Canning Street, Hulme, Manchester
 Monkhouse, Edward H. .. Great Sutton Street, Goswell Rd., London, E.C.
 Moore, Samuel .. 42 Queen Street, Earlestown, Lanes.
 Moore, William .. 9 Park Cross Street, Park Lane, Leeds
 *Mordant, John ..
 Moreton, William .. 24 Union Street, Hyde, Cheshire
 Morgan, Albert Hall .. High Street, Kinner, Staffs.
 Morris, Alexander .. 121 Blackcroft, Dundee
 Morrison, William Norman Inverness
 Nicolson, Edward .. 5 Balgait, Lincoln
 Nicholson, Sarah .. 18 Aeomb Street, Manchester
 Nicoll, Arthur .. Moulsham, Chelmsford
 Nix, William .. 73 Buxton Road, Leytonstone Road, Stratford, Essex
 Norris, Elizabeth R. .. Codnor, near Alfreton, Derbyshire
 Nugent, George Thomas .. 12 Edward Street, Brighton
 Nutt, George Henry .. 103 Albert Square, Manchester
 Ocock, Charles .. High Street, Dulverton, Somerset
 *Oliver, William Hurdon .. 33 Park Hill Terrace, Liverpool
 Orchard, Isaac .. Bell Avenue, Queen Square, Bristol
 Owen, Roger Jones .. 1 Market Terrace, Chatsworth Road, Clapton Park, London, E.
 Owens, Robert .. 77 Great Dover Street, London, S.E.
 Oxborrow, Edward .. 151 Nelson Street West, Birmingham
 Parkinson, Thomas .. 1 Church Street, Blackburn, Lanes.
 Parks, John .. Cannington, Somerset
 Paseo, John .. 183 Orsall Lane, Manchester
 Pattison, Frederick .. 4 Clifton Square, Lytham, Lanes.
 Payne, George .. 1 Bush Lane, London, E.C.
 Pearson, Edward Smith .. Liverpool
 Peat, Thomas Kirk .. 28 Great Russell Street, London
 Peberly, Alfred William .. 83 Upper Condit Street, Leicester
 Perkin, Joseph .. Golden Hill, Kildgrove, Staffs.
 Phillips, George Walter .. 46 Holborn, London, W.C.
 Phillips, John Dutton .. Holly Hall, Dudley, Worcestershire
 Pickard, William .. Cherry Row, New Town, Leeds
 Pickering, Bernard .. 23 Brompton Road, London, S.W.
 Pickering, John .. 1a Caygill Street, Salford, Manchester
 Pickstock, Thos. Wright .. 50 Manor Road, Walworth Road, London, S.E.
 Pill, Edwin .. 15 Guildford Road, Brighton
 Pitman, Robert .. 5 Whittington Place, Up. Holloway, Lon., N.
 Plumble, Charles Marshall .. 30 Malvern Road, Dalston, London, E.
 Plumm, Wilhelm .. 6 Langley Place, Commercial Road, London, E.
 Plummer, Wm. Thomas .. Uttoxeter
 Plumridge, Charles .. Denbigh Cottage, 23 Finchley Road, St. John's Wood, London, N.W.
 Pool, George .. Bond Street, Manchester
 Pope, Arthur N. .. Woodbridge House, Shaftesbury, Dorset
 Porter, William Albert .. 3 Prebend Place, Bedford
 Potbury, Benjamin Chas. .. High Street, St. Mary Cray, Kent
 Poundney, William .. Burton-on-Trent
 Powell, Henry .. 4 Blythe Ter., Stanstead Rd., Forest Hill, Kent
 Powell, Septimus .. 15 Princes Street, London, S.E.
 Pratt, John .. Bradford, Yorks
 Price, Rees .. 54 Loffhouse Road, Shepherd's Bush, Lon., W.
 Priestley, Samuel .. Tong Street, Dudley Hill, Bradford, Yorks.
 Proctor, Joseph .. 274 Cable Street, Shadwell, London, E.
 Prosser, Jehosaphat .. The Villa, Bronllys, nr. Talgarth, Brecknocks, Llanernon, Devon
 Prout, Robert .. 9 Rosemary Lane, Newcastle-on-Tyne
 Pyle, Andrew .. The Cusseyway, Barwell, Cambs.
 Rae, Alexander Scaton .. 6 Market Street, Crediton
 Ramsden, George .. 116 Waterloo Street, Burton-on-Trent
 Rapier, Alexander .. 4 King Street, Kensington, London, W.
 Rayner, Thomas .. Hyde, Cheshire
 Reade, William James .. High Street, Wolverhampton
 Rees, David .. Pontardawe, Glamorganshire
 Rees, John Arthur .. 129 Southwark Bridge Road, London, S.E.
 Reynolds, John .. Hunslet, near Leeds
 Rhodes, Samuel .. 196 Union St., Rhodes Bank, Oldham, Lanes.
 Riach, Charles Beverley .. 5 Albion Street, Belfast
 Richards, Robert .. 41 Paradise Street, Liverpool
 Richards, Samuel Ault .. 2 Temple Street, Wolverhampton
 *Rickards, Edwin ..
 Riley, John Peet .. James Street, Kimberley, Notts.

- Ritchie, Thomas 56 Ducie Street, Oxford Street, Manchester
 Roberts, Edmund 133 St. George's Road, Southwark, London, S.E.
 Roberts, Joseph Elliott St. James's House, New Road, Ponder's End, London, N.
 Robertson, Frederick Freer
 Leslie 15 Ampton St., Grav's Inn Rd., London, W.C.
 Robinson, John 63 High Street, Bridgton, Salop
 Robinson, Joseph Bishop Auckland, Durham
 Rogers, Benj. Whitworth 27 Bishopgate Street Within, London, E.C.
 Rogers, Samuel 6 County Place, Tottenham, Bristol
 Rogers, William Sexton High Street, Newport, Isle of Wight
 Roper, Charles Robert 344 Mare Street, Hackney, London, E.
 Rowden, James High Street, Calne, Wits.
 Rowell, Joseph Longthorpe, near Peterborough
 Roy, Joseph Cree 792 Gallowgate Street, Glasgow
 Rushworth, Jonas Bare, near Lancaster
 Russell, Matthew Rawlings Station View, Fairfield, Droylesden, Lancs.
 Ruston, Joseph 25 Market Street, Chorley, Lancs.
 Rutherford, Edward 101 Grounough Street, Wigan
 Sadler, Thomas 11 Tredgar Place, Bow, London, E.
 *Sanders, Albert John Convict Prison, Gibraltar
 Sansom, Samuel 197 Parrock Street, Gravesend
 Sargeant, Samuel 4 Dartmouth Crescent, Dartmouth; Park Hill, Upper Hol'way, London, N.
 *Savage, John Welch 9 Bank Street, Newton Abbot, Devon
 Sawkins, Susan Stansted, Essex
 Scarrow, William Funderland
 Schiemann, Ernest 72 Winstanley Rd., Clm. Juctn., Lndn., S.W.
 Scholes, Frederick Darfield 129 Oldfield Road, Salford, Manchester
 Scott, Hubert Payne St. Peter Street, Tiverton, Devon
 Scott, Mary Emma St. Peter Street, Tiverton, Devon
 Scott, Walter 137 Fitzwilliam Street, Sheffield
 Serjeant, Robert 11 Mount Pleasant Terrace, Plymouth
 Shepherd, Thomas Heighington, Durham
 Shepley, Samuel Spital, near Chesterfield
 Shuttleworth, Thomas 41 Union Buildings, Blackburn, Lancs.
 Sims, George Samuel 149 Lower Kemington Lane, London, S.E.
 Skirving, George 47 Lower High Street, Wednesbury
 Slade, Edwin Chatteris, Isle of Ely, Cambs.
 Slater, Elias 3 Clarence Street, Prince Street, Manchester
 Smale, Charles 82 Barkham Ter., Lambeth Rd., London, S.E.
 Smith, Joseph 46 Broad Street, Ross, Herefordshire
 Smith, Joseph Wheeler 307 Oxford Street, Manchester
 Smith, Robert 32 Thornton Street, Southwark, London, S.E.
 Smith, Robert John Horselydown, London, S.E.
 Solomon, Charles Edwin 63 Shaw Street, Liverpool
 *Sparks, John 37 Arundel Square, London, N.
 Spear, George 150 Queen Street, Portsea, Hants
 Spens'ey, Thos. Brentnall 9 Joy Street, Barnstaple, Devon
 Spiers, William 5 Wycombe Ter., Hornsey Road, London, N.
 Stainer, Robert William 84 St. James's Road, Southsea, Hants
 Stead, Samuel 219 Meanwood Road, Leeds
 Stebbing, Harry Scabbin, Elsecar, Yorks.
 Stedman, James Lower Tooting
 Stevenson, Frederick 4 Burton Road, Derby
 Stevenson, Henry Ernest 20 Ridgway Place, Wimbledon, Surrey
 Steward, Theophilus Trimpey House, 18 St. Mary's Rd., Leamington
 Steward, William Reform Square, Campbelltown, N.B.
 Stone, John James High Street, Alton, Hants
 Stratford, Alfred Joseph Stonebroom, near A'vreton, Derbyshire
 Sweetman, John Merson 49 Standishgate, Wigan
 Symonds, Henry Banham, near Attleborough, Norfolk
 Tamlyn, Robert Dunstable, Wolverhampton
 Tarrt, Edward Henry 45 Lundy Street, Liverpool
 Tate, Christopher 6 Winchester Street, South Shields
 Taylor, George William Stallingborough, Uceby, Lincolnshire
 Taylor, James Johnson 157 Friargate, Preston, Lancs.
 Teear, Thomas Hives 117 Belgrave Gate, Leicester
 Thistleton, Hugh Belle Vue Terrace, Upper Clapton, London, E.
 Thomas, Frederick William 101 Mortimer Street, London, W.
 Thomas, John 19 Lower Oxford Street, Swansea
 Thomas, John Griffith 110 Cheltenham Road, Bristol
 Thompson, Henry 105 Hither Green Lane, Lewisham, Kent
 *Thompson, John Robert The Villa, Riccall, near York
 *Thompson, John Tatham St. Marys, York
 Thursby, John Fasington Lane, Durham
 Tice, Richard St. Peter's, Norwich
 Tiernan, Robert 59 St. Domingo Grove, Everton, Liverpool
 Towler, George Bland 58 Queen's Road, Everton, Liverpool
 Trood, Richard 81 Ma'den Road, London, N.W.
 Troughton, James 24 Chatsworth Street, Liverpool
 Tucker, Robert Lewis 9 North Street, Bristol
 Tullidge, Robert Roath, Cardiff
 Turner, James 7 Dryden Road, Edge Lane, Liverpool
 Turner, William Henry 31 St. John's Street, Oxford
 *Twemlow, Francis Ernest 57 Castle Street, Oxford Street, London, W.
 Tyler, George 12 Edward Street, Brighton
 Urwin, John Gateshead-on-Tyne
 Verity, Richard 35 Warwick Street, Regent St., London, W.
 Vincent, Henry Moore 11 Russell Gardens, Kensington, London, W.
 Wagstaff, John 12 Church Row, Marlborough Road, Dalston, London, E.
 Wagstaffe, Katherine H. 89 New Church Rd., Camberwell, London, S.E.
 Wakefield, Henry 3 Hedgerley Park Terrace, Turnham Green, Middlesex
 Wakefield, John 3 Hedgerley Park Terrace, Turnham Green, Middlesex
 Walker, Alexander 1 North Fort Street, Leith
 Walker, Ralph Dearlove 41 Chancery Lane, Manchester
 Walkinton, William Mar-
 maduke 7 High Street, Tenby, Pembrokeshire
 Wallace, Andrew 71 Montgomery Street, Edinburgh
 Wallace, James Market Street, Dalton-in-Furness, Lancs.
 Wallis, James Market Place, Horsea, near Hull
 Ward, John James 7 Norfolk Place, Norfolk Street, Hull
 Watson, Edward Arthur 2 Usk Terrace, Whitby
 Watt, John Linnwood, near Paisley, N.B.
 Watts, John 57 Baker Street, London, W.
 Weaver, Frederick Wolverhampton
 Welchman, Edward Elers 24 Gold Street, Northampton
 Wells, Albert Charles 3 Wood Hill, Northampton
 Weston, Samuel Cranness New Buckenham, Norfolk
 Weather, John 21 Dock Street, Leeds
 Wheeler, Albert 2 Stanhaw Terrace, Commercial Road, Land-
 port, Hants
 Whittaker, Benjamin Batley, Yorks.
 White, William 25 Lyndoch Street, Græuock, N.B.
 Whitehead, John York Street, Rochdale, Lancs.
 Whitmore, Charles 61 Conduit Street, Leicester
 Wilkins, George Mantague 11 Wellington Place, Hastings
 Wilkinson, Henry 74 Bark Street, Bolton
 Williams, Charles Adrian 8 Phoenix Street, Stonehouse, Devon
 Williams, John Llanenddog, Anglesey
 Williams, John Havard 15 Lower Tulse Hill, Brixton, London, S.W.
 Williams, Richard Jones 7 Church Street, Liverpool
 Williams, Thomas Nash 91 Cardiff Road, Aberaman, Glamorganshire
 Williams, William Aberdare, Glamorganshire
 Williamson, William 306 Kennington Park Road, London, S.E.
 *Wills, Joseph 19 Park Terrace, Regent's Park, London, N.W.
 *Wills, Thomas Doidge Barn-table
 Wilson, Alfred The Hospital, St. Albans
 Wilson, Alexander Robb 32 Dee Street, Poplar, London, E.
 Wilson, Richard 6 Villiers Street, Bradford, Yorks.
 Wilson, William 55 Albert Road, Morice Town, Devonport
 Windmill, William Henry 9 Church Road, Barking, Essex
 Winstanley, Alfred 238 Featherhall Road, O'dham
 Wirehollow, William 35 East Street, Walworth, London, S.E.
 Wolfenden, Thomas 75 Oxford Street, Manchester
 Wonfor, Herbert Isou Amport, Andover, Hants
 Wood, Albert Castle Street, Dudley
 Woodhead, Joseph Thoma 60 Spencer Street, Everton, Liverpool
 Woolatt, Albert Newland Arley, Siding, Beds.
 *Worthington, William 45 Kensington Road, Southport
 Wragg, Francis Rook 71 Embden Street, Manchester
 Wragg, James Crookes, Yorks.
 Wright, John Armstrong Deardengate, Haslingden, Lancs.
 Wright, Joseph 2 Oxenden Street, Coventry St., London, S.W.
 Yates, George 14 Beloe Street, Toxteth Park, Liverpool
 Young, Dixon 20 Grange Terrace, Norton, Stockton-on-Tees
 Young, William Williams 225 Jamaica Road, Bermondsey, London, S.E.

Obituary.

HEDLEY.—On August 29, Mr. John Hedley, chemist and druggist, Houghton-le-Spring. Aged 47.

HICKINBOTTOM.—On September 11, Mr. Samuel Hickinbottom, chemist and druggist, Sleaford. Aged 51.

HARTLEY.—On September 18, Mr. Alfred Hartley, chemist and druggist, Manchester. Aged 45.

THOMPSON.—On September 27, Mr. James Thompson, chemist and druggist, London House Yard, London. Aged 31.

EDWARDS.—On October 6, Mr. John Jones Edwards, pharmaceutical chemist, Crickhowell. Aged 38.

JENKINS.—On October 11, Mr. Thomas Jenkins, chemist and druggist, Coventry. Aged 72.

WEIR.—On October 12, Mr. Joseph Shaw Weir, chemist and druggist, Merthyr Tydfil. Aged 65.

GOLDING.—On October 13, Mr. William Golding, chemist and druggist, Cricklade. Aged 74.

WHITTON.—On October 17, Mr. Richard Whitton, chemist and druggist, late of Lincoln. Aged 27.

DAVIES.—On October 19, Mr. Christopher Henry Davies, chemist and druggist, late of Arthur Terrace, London. Aged 65.

We regret very much to announce the death of Mr. G. W. Wigner, F.I.C., F.C.S., President of the Society of Public Analysts. Mr. Wigner was an active and able analytical chemist, and had a considerable practice among the importers of tea and other articles of food in the City. Of late he had devoted much attention to milk, and his recent startling statements as to the generality of the practice of dilution in the milk trade, first published in the *Times*, attracted great notice. To Mr. Wigner's initiative and organisation the establishment and maintenance of the Society of Public Analysts were due, and, in conjunction with Dr. Muter, he has edited the journal of the Society since its foundation. He died at Brockley, near London, on October 17, aged 42, after some weeks of severe suffering, and only nine months after the death of his wife.

Medical Cleanings.

FROM THE HARVEIAN ORATION, 1884.

Delivered by Dr. J. Russell Reynolds.

The peoples in this world have been always fighting, from the days of Cain and Abel until now; but yet there is a book, written not so very long ago, with the title of "The Fifteen Decisive Battles of the World," and perhaps time is yet too young for anyone to say that a sixteenth has been fought. But, in the great conflicts of schools of science, of thought, and of discovery with regard to human life, can we put our finger upon even so many as "fifteen" who have made such marks in history that their works have followed them as "decisive battles" gained? If there be, let us gladly thank all the great heroes who led these fights; but if we look among them, there is no one whom the gathered-up roll of leaders in the world of thought can show who stands on a higher plane than does our own immortal Harvey.

* *

If we would now appreciate the work of Harvey, let us for a moment try to eliminate from our knowledge the fact of "the circulation of the blood," and then imagine ourselves to be face to face with the diseases that we are daily treating; with fever, apoplexy—hemorrhagic, embolic, or diathetic; with dropsy; with cardiac disease, recent or old; with degeneration of structure, or with functional derangement. It requires some force of fancy to realise what would be our position. The thermometer might teach us much; but it is difficult to see in what way either stethoscope, cardiograph, or sphygmograph could do other than augment our bewilderment. Those who have made out for us the meaning of the cardiac sounds; those who have skilfully constructed apparatus, so as to make the heart itself record, in some fashion, its own marvellous movements; and those who have delineated, in some sense, the curve and time-ordered elements of the radial pulse, would all admit that their work was based upon this foregone conclusion, the accepted fact that the blood moved onwards in a circle. They have attained to knowledge that Harvey could not reach; but, let me ask, could they have known what they now do unless Harvey had raised the platform upon which they stand? "The thoughts of men are widened with the process of the suns;" and, by slow degrees, others might have done the work, or made the discovery, that he made; but the effect of his energy was a grand upheaval of the crusted surface of the past—a Titanic throes, that brought to the birth a new and mighty force and fact, and, when some of the dust and boulders had been cleared away, placed all who followed him on a higher plane and in a clearer light. It is given to the few great men to save the time and labour of the many. They not only take strides that would be impossible for those of lesser build, but they carry with them, over the bridge that they have thrown across the great gulf between the question of yesterday and the answer of to-day, all those who have eyes to see, ears to hear, and hearts to follow.

SEA ATMOSPHERE MANUFACTURED TO ORDER.—Dr. B. W. Richardson, of the *Asclepiad*, is nothing if he is not original. His originality has, indeed, been so marked in so many of his suggestions on hygienic topics that he has been suspected, and even accused, of eccentricity of genius—for genius he certainly has, and of a high order. The profession will recall his story of Hygeia, the model city, with its sense and its nonsense. His latest suggestion is of a formula which, while not disturbing the comforts of home and family, secures to the patient the benefits which have hitherto necessitated a journey to the seashore. It consists of a solution of peroxide of hydrogen (10 volumes strength) containing 1 per cent. ozonic ether, iodine to saturation, and 250 per cent. of sea-salt. This solution is to be diffused in the sick-chamber by means of a spray-producer of such fineness as shall require its operation for the space of an hour to consume 2 fl. oz. of the fluid. The effect is said to be the agreeable odour of the sea, while it is at the same time the best purifier ever suggested. Tested by the usual solutions and papers, it has been found to be a most active ozonising method.—*Therapeutic Gazette*.

SERO-SUBLIMATE GAUZE AS AN ANTISEPTIC DRESSING.—An important paper was read before the Medical Society of London by Sir Joseph Lister, on October 20, and is printed in the *British Medical Journal* of October 25. This eminent surgeon reports that he had during the past warm summer met with some failures with his antiseptic dressings. His investigations showed that the eucalyptus gauze was in fault—that, partly through the heat, partly, perhaps, through having been kept too long, the eucalyptus oil had partially evaporated. Sir Joseph was naturally led to experiment with corrosive sublimate, the antiseptic powers of which were first exactly determined by Koch, and which has since become extensively used in a 1 per cent. strength with wood-wool by German surgeons as a dressing for wounds. Without going through Sir Joseph Lister's experiments, it may be here stated that he finds corrosive sublimate a most efficient antiseptic, but that he prefers what he describes as "sero-sublimate," actually a solution of what chemists would call "albuminate of mercury." On this point Sir Joseph Lister makes a curious observation. He says:—"It is, I believe, a very general view in the profession, not to say among professional chemists, that albumen forms, with corrosive sublimate, an insoluble, or very sparingly soluble, albuminate; and that this albuminate is inert; whence the efficacy of white of egg as an antidote in corrosive sublimate poisoning. In the fourth edition of Miller's 'Chemistry' it is distinctly stated that an albuminate of mercury is formed as a precipitate when a solution of albumen is treated with corrosive sublimate. In the third appendix to Watts's 'Dictionary of Chemistry' the albuminates are still spoken of, and, in the intermediate appendices, there is nothing said to modify the view expressed in the original work, viz., 'Mercuric albuminate is a white substance obtained by precipitating corrosive sublimate with albuminate of sodium (white of egg).' " Sir Joseph Lister, however, asserts that on passing serum through cotton wool containing sublimate, a solution is obtained, practically a combination of albumen with corrosive sublimate, which retains the taste and the antiseptic power of the latter, but which is much less irritating, and therefore better suited for wound-dressings. He does not believe that the albumen and the corrosive sublimate do form a chemical compound. His plan is to soak gauze in a solution of corrosive sublimate 1, serum (horses' blood) 100. The gauze takes up $2\frac{1}{2}$ times its weight of the liquid, and it has been found by careful experiment that the antiseptic power of such a combination is superior to salicylic or iodoform wool, to the best eucalyptus gauze, and only equalled by stronger sublimate preparations and carbolic acid gauze.

MR. GLADSTONE ON THE REPRESENTATION OF MEDICINE IN PARLIAMENT.—Mr. Gladstone has caused the following answer to be sent to the Committee of the Association of Members of the Royal College of Surgeons, who had desired the Parliamentary representation of registered medical practitioners:—

"10 Downing Street, Whitehall, October 29.

"SIR,—Mr. Gladstone has had the honour to receive the communication which you have made to him on behalf of the Committee of the Association of Members of the Royal College of Surgeons, urging that provision be made for the representation in Parliament of the medical practitioners of the United Kingdom. In reply, I am directed to say that Mr. Gladstone readily admits the title of the Committee to raise a question of this nature, but he cannot think that their particular proposition would commend itself to the judgment of Parliament. He would gladly welcome the presence of more members of the medical profession in the House of Commons, but in his opinion this can only be secured by the means which are at present open to all other professions. I am to add that Mr. Gladstone is unable to admit the contention in your letter that other learned professions are directly represented in the Legislature.

"I am, sir, your obedient servant.

"E. W. HAMILTON."

A SNOW-WHITE POMADE can be obtained by adding to 15 kilogrammes of pomade $\frac{1}{2}$ kilogramme of soap with 4 grammes of borax dissolved in hot water. With such a pomade one-third of its weight of water can be incorporated.—*Leitmeritz Rundschau*.

disputes over some correspondence, misunderstandings, contrary opinions of a custom, and so on. These might generally be better decided without the intervention of any lawyer, and it is such cases, as we understand, that the London Chamber of Commerce offers to settle.

We have received from Mr. Kenric B. Murray, the secretary of the London Chamber, the following explanation of the arrangements which have been made:—

First, an agreement of reference has been carefully prepared after consultation with the most experienced solicitors and counsel, which, it is believed, will render awards absolutely binding. Under this agreement, the London Chamber of Commerce only consents to exercise its jurisdiction when both parties agree, under its by-laws, to make the award a rule of court of the High Court of Justice. This stipulation renders it impossible to upset the arbitration award on the merits of the case itself, but only if the procedure of the arbitrator or arbitrators, or the conduct of the case, should prove to have been in any way faulty. It will be the particular function of the Arbitration Committee of the Chamber to watch that no such faulty procedure shall be possible.

The second important step taken by the Chamber has been by the nomination (by its various trades' sections) of the leading members in the principal branches of trade to act as arbitrators for cases arising in matters connected with their particular specialties. Lists of arbitrators have now been compiled by the Textile, Chemical, Leather, Coal, Printing, and West African Trade Sections, and it is believed that the other sections of the Chamber will, on the recommendation of the Council, provide similar lists.

It will thus be possible for disputants in commercial cases to select arbitrators or umpires from a list of nearly 100 names connected with the largest and most respected firms in the City of London. The by-law of the Chamber provides for the most rapid action immediately upon the signing of the agreement of reference by both parties, and the costs of the Chamber are merely nominal. The arbitrators' fees also are as low as is consistent with the employment of first-class and independent experience.

It may be added that a Bill is to be introduced into Parliament, codifying all the law in reference to arbitration.

MEDICAL HEROISM.

THE medical profession, as represented by its journals, in this country at least, would seem to consist of the most self-seeking, popularity-hunting, grasping, envious, boasting set of men throughout society. It is the business of those journals to constantly bring to the front all the grievances which can be collected, and they do that part of their work most faithfully. But we must all recognise that the surface idea of the profession is a very inaccurate one. We all know, and would like to testify, how patiently, honourably, self-sacrificingly many hundreds of general practitioners spend their lives. The unrelenting labour, the perpetual discomforts, and the moral and physical weariness which they undergo are all taken as a matter of course, and in most cases the reward, as far as fortune goes, is very inadequate. Those lives spent in useful service to their fellows should not be forgotten when we are indignant at some silly, insolent paragraph adorning the pages of one of the *Medical Glorifiers*. But the practitioners of medicine are entitled to more than this. When young Dr. Samuel Rabbeth last month, at the Royal Free Hospital, sucked the tracheotomy tube which had been applied to a little diphtheritic patient, he performed an act of valour as noble as any that ever won the Victoria Cross. He had no prospect of fame for the act,

he simply saw that the deed was needful; it came in his path of duty, as he recognised it; he performed that duty, knowing well the risk, and he thereby sacrificed his life. He was only twenty-eight years of age, he had taken high honours as a student, and appeared to be starting on a brilliant career.

Lately all the papers in Europe devoted leaders and paragraphs to the honour of the King of Italy for his courage in visiting the cholera-stricken quarters of Naples. The King did what he could do, and for that he deserved credit. But no doubt in Naples, Marseilles, Toulon, during the past autumn, many an obscure doctor has accepted far greater risks in the honest fulfilment of what seemed to him his simple duty, while neither he, nor his neighbours, nor any gushing journalist discovered the heroism which suddenly became so obvious when it was displayed by royalty. The implication would not seem to be complimentary to the latter. Men, it would appear, look for courage and devotion in the medical profession; they are somewhat astonished when they find it in a king.

TRAUMATICINE.

TRAUMATICINE, by which ingenious name was meant a solution of guttapercha in chloroform, has again come into notice. The original preparation was probably suggested as a mode of utilising otherwise waste-stock, as it owed its inspiration not to a pharmaceutical manufacturer, but to a wholesale City warehouse. It was found to evaporate to such an extent that it became an undesirable investment. When fresh it was a most useful external application, and being painted over a given surface with a camel's-hair pencil, a thin covering of a brownish colour was deposited. It has been thought possible to increase the value of the preparation by dissolving in the chloroform solution a certain quantity of chrysophanic acid, in order to make the pellicle more adherent. So medicated, it has been employed with success in the treatment of psoriasis; but it is clear that traumaticine can be used as a vehicle for a great number of remedies soluble in chloroform, or susceptible of being held in suspension by its means.

M. Auspitz introduces, in eight parts of chloroform, one part of chrysophanic acid and one part of guttapercha, and this formula is stated to have given favourable results. M. Besnier prefers applying first chrysophanic acid in the chloroform solution, and covering the slight deposit formed with a varnish of guttapercha. He gives two formulæ.

						Grammes
Acid chrysophanic	..	..	..	..	..	10 to 15
Chloroform	..	..	..	..	..	85 to 90
II.						
Guttapercha, purified	..	..	..	..	..	10
Chloroform	..	..	..	..	..	90

Dr. Alder Smith, of Christ's Hospital, working in an entirely independent manner, gives a striking confirmation of the above. There is no more troublesome and perplexing form of disease than ringworm. Often it appears to defy remedial agents, or at least to require their long continuance. Moreover, it constantly falls to the lot of the pharmacist to be consulted in such cases.

Oleates, in the doctor's experience, have been considered useful, while oleate of mercury has been found one of the best remedies we possess in chronic forms of the disease. Dr. Smith has not been equally successful with oleate of copper. He turned his attention to discover something that would penetrate most deeply into the hair follicles, and when ringworm did not extend over too great a surface, he was con-

vinced that chloroform might be used with advantage. Chrysophanic acid, which is soluble in this menstruum, is an excellent parasiticide. During the past year he has used a solution of 7 grains of acid to 1 ounce of chloroform, and in all cases of recent ringworm he believes it to be the most efficient treatment. Naturally he finds that the solution speedily evaporates, leaving the yellow acid dry on the place; that great care must be exercised in applying the solution. A small room is to be avoided, and a current of air is desirable.

These inconveniences appear to be met effectually by the intervention of gutta-percha; while some additional advantages obtained will be obvious to a practical operator.

REPETITION OF PRESCRIPTIONS.

A VEXED question still agitates Pharmacy: Can a pharmacist dispense a prescription more than once? That is, ought he so to do, and can he, with due regard to the patient's safety and professional etiquette? We know the English discussion on the point, which is complicated by the rights of property; but it will not be uninteresting to see what our foreign brethren think upon the matter.

The origin of the re-opening of the controversy is the adverse judgment given in a French case, where a certain quantity of hydrochlorate of morphia had been administered without renewal of the prescription. A Commission, or, as we should rather say, a Committee of Investigation, was appointed to examine the bearings of the decision—to advise some line of conduct for future guidance, and to report generally on the subject.

It was an exceedingly difficult inquiry, for to so large an extent theoretical and abstract principles are at variance with practices to which custom has lent authority. M. Mayet furnishes a fair and dispassionate summary. Two cases are supposed. A physician happens to be in daily attendance—or, the patient has consulted some specialist of celebrity. In the first case the prescription may be, and most probably is, modified by the prescriber, and thus the same formula is presented to the dispenser. Under those conditions no pharmacist would refuse, and no possible harm could ensue. In the second case, one visit alone is made both from the nature of the case, and because a renewal of visits would be too expensive. Moreover, as the specialist would probably reside in Paris, it would be impracticable for the patient living in the provinces to obtain further advice.

The patient therefore has his prescription made up at some well-known pharmacy, and claims his prescription, which by French law is his own property. Now (a) the medicine may not be toxic; (b) it may not be hurtful, except when taken for too long a period; nor (c) harmful, except when by misadventure or otherwise it may be taken in too large a dose.

In the first case (a) there can be no possible danger in a repetition.

In the second case (b) how can the dispenser know, or attempt to decide whether or not the recipe should be repeated, for the physician from motives of delicacy may not at the time have ordered a sufficient quantity, and may have given verbal directions that in case the desired effect should not have been produced, more should be got; with the further instruction to see him again in a fortnight or a month's time.

In the third case (c) the prescriber should give definite and clear indications of dose, and carefully guard against misapplication, as when ordering Fowler's Solution and similar preparations.

Many patients, continues the reporter, come to Paris not solely to consult some eminent practitioner, but to escape

observation; or to be at leisure to undergo a course of treatment. In London the case is identical, and in consequence the provincial dispenser in both countries must frequently be called upon to dispense a formula which the patient has brought with him on returning home.

This is the pharmacist's side of the question, and leaving M. Mayet, we would add that in England patients are very conservative, and dispensers justly afraid of giving offence. What dispenser does not know the highly respectable but easily irate customer, who for years brings with him his weather-beaten prescription to be made up? Would that dispenser, with a wife and family upstairs, or a connection to maintain, risk telling that customer that it was against his conscience to make up a prescription twice? Would he deliberately, by so doing, lose not that individual customer, but his whole family interest and future patronage? Would it be balm to his wounded feelings to discover that there is not one single establishment of repute that is troubled with a similar hesitation?

Let us turn to the medical aspect of the question, and once more tread French ground.

La Société de Médecine Légale thus expresses its opinion:—

1. As regards medical men—that when any of them shall prescribe a remedy susceptible of occasioning poisonous effects either through error in the use of the medicine, or by the abuse which might be made of it, the prescription should indicate in full, according to the text of the law, the quantity prescribed of the toxic substance, the mode of its administration, and the maximum number of times the prescription might be dispensed without a second *visa*.

2. Whenever the pharmacist shall dispense a prescription, even though it may have been already inscribed upon his register, he should stamp it anew; the number and stamp indicating the date of the day when it was dispensed.

3. Lastly, that hypodermic solutions should not in any case be renewed without special authorisation of the prescriber.

It should be explained that “to indicate in full” means not to use conventional signs, but written words; and that in Russia and Norway, especially in high life, hypodermic injections of morphia are abused.

In conclusion, the French criticism states that it is already distinctly forbidden by the law to sell poisonous substances in medicine except by the pharmacien, and by the prescription of a legally qualified man. These prescriptions must be duly copied, registered, and stamped. By just interpretation this should be always done, and not confined to the original first prescription.

Further legislation respecting the subject is not required; and accidents caused by the repetition of a prescription have been extremely rare.

Foreign and English views are thus in unison; the best safeguard is a reasonable caution exercised on the part of the medical profession, supplemented by the discretion of a qualified and competent dispenser.

CHEMISTS' CIRCULARS—A PRIZE OFFERED.

LAST month we published an original circular issued by a firm of American druggists about to commence business. There was something decidedly fresh about its style and matter, which in itself would commend its composers to the public. Just this attractiveness is a feature of which there is a plentiful absence in the ordinary announcements of British, and we suppose of American, druggists. It would be well if pharmacists could occasionally emancipate themselves from the fetters of tradition, and show a little individuality in their printed circulars. Their walk and conversation does not lack

traits of character sufficiently decided to distinguish them from other men, and why should their circulars?

We therefore propose to offer a prize of **TWO GUINEAS** for the best circular intended for issue at the beginning of the year or with the Christmas accounts. It should aim first at extending the sale of what may be called season goods, but should take up a few leading articles as well, the demand for which might be increased. It should not depend for effect on startling type or typographical display, and should not exceed a reasonable length.

If a sufficient number of circulars are sent in, we shall endeavour to secure the assistance of well-known men in the business in the task of deciding their relative merits. We reserve our right to withhold the prize if the competition produces nothing of sufficient merit in our judgment to deserve the prize. The class of trade for which the circular is designed will, of course, be taken into consideration. We shall claim the right of publishing any circular sent in. The matter must be written, or printed, on one side of the paper only, and should be sent to this office by December 4. Should the experiment succeed, it will be repeated. We trust it will be the means of suggesting new ideas and of putting fresh life into the businesses of our readers.

The astonishing number of patents taken out for forms of stopping-bottles, generally for aerated waters, is very suggestive. This month our report mentions 18 such patents. Last month 19 such patents were mentioned, and 14 were reported in September. And these patents are taken out notwithstanding the fact that the field seems very fully occupied by bottles which have established their success, and that nothing but a really marked improvement would induce aerated-water makers to change their plant.

Pharmacists seem to have scored a fair share of municipal honours at the recent election. Confining ourselves to those who have reached mayoralties, we find Mr. J. E. Brooks has been chosen for Ludlow, Mr. Edward Clark for Lancaster, Mr. F. J. Clarke (of Blood Mixture fame) for the fourth time for Lincoln, Mr. Edwin Helliard for Yeovil, Mr. W. Hough, Sen., for Doncaster, Mr. Edgar Neale for Chippenham, and Mr. Sidney Payne for Wallingford. All these gentlemen are returned as Conservatives, except Mr. F. J. Clarke of Lincoln.

Among the arranged Cantor Lectures by the Society of Arts for the session 1884-1885 are courses of three lectures on "Artists' Colours," by J. M. Thomson, Lecturer on Chemistry at King's College, London (February 2, 9, and 16), and on the "Manufacture of Toilet Soaps," by Dr. C. R. Alder Wright, F.R.S., &c. (May 4, 11, and 18). The Journal of the Society of Arts is to be made the official record of the International Inventions Exhibition for the publication of official notices and information about the exhibition.

At one of the ordinary meetings Dr. B. W. Richardson is to lecture on "The Painless Extinction of Life in the Lower Animals;" at another, Mr. Anton Jurgens will lecture on "The Preparation of Butterine;" Mr. R. Brudenel Carter on "The Influence of Civilisation upon Eyesight;" and Mr. Fred. Siemens on "Tempered Glass."

A Committee of the Association of Members of the Royal College of Surgeons of England have resolved—"That the Prime Minister be respectfully requested to provide in the 'Redistribution Scheme' that two representatives in Parliament be given to the registered medical practitioners of Great Britain and Ireland." This resolution has been forwarded to Mr. Gladstone. It is claimed that by this means 30,000 highly educated and eminently respectable constituents would thus be expressly represented, and that such a course would be to the advantage of science, material progress, and public health. Who would grudge Mr. Gladstone the little amusements which these modest associations so thoughtfully provide for him?

It is announced that an International Exhibition will be held at the Alexandra Palace next year, commencing about the 31st of March, and remaining open for six months. A prominent feature in the prospectus is that 10 per cent. of the gross receipts from admission money is to be set apart for distribution amongst the principal London hospitals. Sir Henry Pitman, Sir Andrew Clark, Bart., and Dr. George Johnson are named on the committee. Paris is to have another Grand International Exhibition in 1889. The South Kensington Exhibition of next year, as we have already stated, is to be confined to Inventions and Music, and it is to be followed in 1886 by an exhibition representing India and the Colonies.

* *

One of the approved candidates for the Benevolent Fund annuity election in December next is Mr. Francis Davis, now in his 78th year. Mr. Davis was in business at Leominster for twenty-seven years, was one of the founders of the Pharmaceutical Society, and was its local secretary for seventeen years. He was once Mayor of Leominster, and filled other offices of honour and trust. He retired from business twenty-five years ago with ample means, but unfortunate investments have since caused the loss of all his life's earnings. We have not as a rule specified the cases of any candidates who have appealed to the Benevolent Fund, as the necessary facts are always sufficiently stated on the voting paper. But Mr. Davis's case seems so exceptional that we mention it with much sympathy, as an item of pharmaceutical history.

* *

There are rumours of changes to be made in the Patent Office Sales Department, which will make it a much easier task to obtain a patent specification. The present system is division of labour run mad. The applicant for a twopenny specification must find out the year and number of his patent, write it on a piece of paper of particular shape supplied by the office (it is no use bringing your own slip), hand it to a clerk, who hands it to an attendant, who disappears so long in the background that apprehensions for his safety are only reasonable. When the specification at last appears in his company, the price must be noted down on a piece of paper, which must be taken to a wicket, where the money is paid and the paper stamped. This must then be brought back to the counter, and the purchaser at last allowed to go on his way rejoicing that his visits to the department are not over frequent. There is certainly room for improvement.

* *

A curious case came before the magistrates at Fenton, Staffordshire, on October 24. A herbalist named Bowers was charged under the Sale of Food and Drugs Act with having sold saffron not of the nature and quality of the substance demanded. For saffron he appears to have sold savin, and for the defence it was stated that this was the substance which herbalists generally sold as saffron, "though it differed from the saffron of the chemists." The Bench did not allow the contention thus apparently suggested that the term "saffron" was a merely conventional one with no fixed meaning, and they seemed to recognise that the "saffron of the chemists" was the correct article, but they did not see their way to convict under the Act. The defendant had sold an incorrect article, and a most dangerous article, but he did not appear to have sold an adulterated article. The inference is that if you adulterate to 50 or 75 per cent. you are liable; but do the work thoroughly, substitute up to 100 per cent., and you are safe.

* *

During the session of the General Medical Council last month Dr. Quain, the chairman of the Pharmacopœia Committee, reported that at a meeting of the Pharmacopœia Committee, held on June 20, 1884, a summary of suggestions received in reply to the memorandum sent to medical and other bodies and individuals was fully considered, with the assistance of the editors, Professors Redwood, Bentley, and Attfield. Directions were then given to the editors to expedite as much as possible the preparation of the Pharmacopœia. The Registrar had informed him that the present edition of the Pharmacopœia was exhausted. Professor Redwood had informed the committee that considerable progress had been

made with the new edition, especially with regard to new substances and their preparations, the introduction of which the committee had sanctioned, but in reference to which much work yet remained to be done. He, however, assured the committee, on behalf of himself and his colleagues, that the utmost expedition should be used in the preparation of the work.

* *

The Chemists' Assistants' Association have commenced their eighth session in new quarters at 103 Great Russell Street, W.C. Their new president is Mr. Richard Winfrey, who delivered an inaugural address on October 15. In the course of the address Mr. Winfrey referred to the "cutting chemists," but said he did not wish to hold up all such to scorn. Some had been forced into the practice by circumstances over which they had but little control; it had, he feared, often resolved itself into the very pertinent question: Is half a loaf better than no bread? Those accustomed to the conduct of business in "West-end" houses possibly did not give sufficient weight to all the *pros* and *cons*. He did not regard the prospects of pharmacy as altogether hopeless. If they consulted their friends in other walks of life they would find the same struggle going on, and the same change coming over the conduct of business. In the smallest country town the draper is forced to pay more attention to the rapid change of fashion, and run greater risk of making bad stock than he used. With the chemist, change of fashion and bad stock were small difficulties. A few new remedies were always coming out, and sometimes became bad stock, and Americans were prolific with their patent pills, but, compared with the drapers' difficulties, these were trifles. Then the grocer knew what it was to sell sugar at cost, and the tailor to have his best materials imitated with shoddy. As for the farmer, poor fellow! he was so hardly set with foreign competition that it was with the greatest difficulty he made both ends meet. Parsons without pulpits, lawyers without clients, and even doctors without patients, were of everyday occurrence. So really he thought he might sum up, and be comforted in summing up, that they were no worse off than their neighbours, and, taken as a class, not quite so bad.



AND

Literary Notes.

Notes on Materia Medica and Pharmacy. By Frederick T. Roberts, M.D., B.Sc., F.R.C.P., Examiner in Materia Medica and Pharmacy in the University of London, and in Materia Medica at the Royal College of Physicians; Professor of Therapeutics at University College, &c. London: H. K. Lewis, 136 Gower Street. 1884.

WE commend these "Notes" to the attention of students desirous of mastering the more important facts of materia medica and pharmacy, without unnecessarily burdening their memory or wasting their time acquiring trifling or minute details. As regards materia medica, particular attention is directed to the source of drugs, their nature, their mode of preparation, their active principle and chemical composition, their chief characters and properties, and their tests, impurities, and adulterations. In pharmacy, again, attention is particularly directed to such points as the mode of conducting pharmaceutical operations, the nature of groups of preparations and their general methods of manufacture, the details of the preparation of individual drugs and of active principles, the pharmaceutical compounds or official preparations of each particular drug, with their important ingredients, and, where necessary, their relative proportion; and, lastly, the members of each group of official preparations, with other important details in relation to any member of the group. All information on these different points is given in a clear and concise manner, and we have no doubt these notes will be found useful both for reference and as an aid in learning the principal facts relating to materia medica and pharmacy.

A Course of Qualitative Chemical Analysis. By the late W. G. Valentin, F.C.S.; revised and corrected by W. R. Hodgkinson, Ph. D., and H. M. Chapman. Sixth edition. London: T. & A. Churchill. 1884.

THE alterations in this new edition of a well-known work are not such as require any special comment. The absence of uniformity in the formulae employed to represent the various compounds referred to is a feature of the book. The editors state that "several modes in common use are employed indifferently throughout the book, in order to familiarise the student with them." The student who desires to make a special study of the various methods that may be employed to exhibit certain relations of different compounds will, no doubt, take a special interest in elaborate constitutional formulae; but if his chief object is the study of analytical reactions and methods, then complex formulae, instead of facilitating his work, would seem calculated to distract his attention and to embarrass him.

The subject of spectrum analysis, which is dealt with only in a foot-note, demands a more complete treatment. It is true that the practical applications of the spectroscope are not numerous, but spectrum analysis has a deep scientific interest, and to it belongs the credit of having revealed relations between groups of elements of great importance in connection with the periodic system. At the end of the book there is a map of spectra, on a wave-length scale. Referring to potassium we find that the most prominent and characteristic line given by that metal, *i.e.* the line in the extreme red, is not shown in the map. This is a serious omission, as the map is more likely to be consulted in reference to this element than any other. A table of spectra, as they are actually seen with the refracting instruments usually employed, would be more useful to the student.

Elements of Modern Chemistry. By Adolphe Wurtz (Senator), Member of the Institute, &c. Second American edition. Translated and edited, with the approbation of the author, from the fifth French edition, by W. H. Greene, M.D., Professor of Chemistry in the Central High School, Philadelphia. London and Philadelphia: J. B. Lippincott & Co. 1884.

THE illustrious author of this volume is one of the few chemists of whom it can be said that his work forms an epoch in the history of the science. By his death France has been deprived of one of her brightest intellectual adornments, and science has lost the services of a faithful friend.

This edition differs from the preceding one chiefly in the classification of the metals, the plan that is now followed being more in accordance with the generally accepted theory of atomicity.

There is added a short chapter on chemical energy, and a brief history of Mendeljeff's periodic law. About half of the volume is devoted to organic chemistry, in which department there are extensive additions.

The chapter on chemical energy and thermo-chemistry is admirable; the only fault that can be found with it is that it is too short. These remarks apply also to the chapter on the periodic law. In an elementary work one of the principal difficulties the author encounters is to present the facts in a form that shall be clear as well as concise, and to minimise the risk of being misunderstood. In this work that difficult object is successfully attained. In every page one can trace the master hand, and detect that precision of expression that arises from an intimate acquaintance with the intricacies of the science. We have observed only one inaccuracy—a reference to granite as a mineral—an aluminium silicate, on page 375; feldspar is obviously intended.

The illustrations in this book are excellent, and they might serve as an example to some English authors. It seems to be no uncommon notion that an utterly inartistic representation of a test-tube or a flask is no disfigurement to the pages of a chemical text-book, and that such sketches answer their purpose if the reader can make out what they are intended to represent. Such uncultured notions are not worthy of this æsthetic age, and ought not to be tolerated. There is only one illustration in this volume that we can find fault with, and that is the figure representing yeast-cells—an object, however, difficult to represent in a wood-cut. The other illustrations, particularly those that represent metallurgical operations, are all that could be desired.

Plant Lore, Legends, and Lyrics; embracing the Myths, Traditions, Superstitions, and Folk-lore of the Plant Kingdom. By Richard Folkard, jun. London: S. Low, Marston & Co. 1884. Pp. 24 and 610.

THE preface explains the origin of the book. Some few years ago the author was associated in the conduct of a horticultural journal. He then amassed for literary purposes much of the material made use of in the present volume. When the journal was discontinued he determined to classify and arrange his collections, and he has since added Indian lore from De Gubernati's "Mythologie des Plantes," and continental traditions.

The author claims no originality in design or investigation. He takes traditions and fancies as he finds them, without attempting to disclose their origin. In his introduction he repudiates as strained the theory that explains all such stories as developments of the solar myth.

It will probably surprise most readers who have not given personal attention to the subject, to find that it is possible to fill 600 pages with legends of plants and then to leave the field unexhausted. The weird, quaint, poetical fancies are recorded here in a form easy of reference.

There are two parts, the second consisting of "An Encyclopædia of 600 Plants, English and Foreign," giving their myths, legends, traditions, folk-lore, symbolism, and history, and filling 400 pages. The first part contains sixteen chapters on such topics as the world trees of the ancients, the trees of paradise, and the tree of Adam, sacred plants of the ancients, floral ceremonies, garlands and wreaths, plants of the Christian church, sylvans, wood-nymphs, and tree spirits, plants of the devil, plants of the witches, magical plants, &c. In the chapter on the doctrine of plant signatures is a table of the plants assigned to the different organs, and in that on plant symbolism and language are full codes which will enable its possessors to send and interpret all sorts of anatomy messages.

There are many quaint illustrations copied from old works. One, of the tree of Judas, copied from Maundeville's "Travels" (A.D. 1219 circa), shows Judas hanging by the neck, and the fiend extracting his soul from his body, the soul resembling the man in miniature. On page 182 is a woodcut of the passion-flower of the Jesuits, from Parkinson's "Paradisus" (1656), and on page 487 one of the same plant under the title of "Granadilla, or passion-flower," from Zahn's "Specula Physico-mathematico-historica" (1696). The latter shows far better execution, but has evidently been copied from Parkinson or from some common source. The curve of the stalk, and the arrangement of the leaves, fruit, flower, bud, and tendrils is the same in both, though the details have been much modified by the artist.

To make a quotation from a work of this kind is like showing a brick as a sample of a building; but we do not remember to have seen the following Bengali legend of the origin of opium, which we find on page 505:—

"There once lived, on the banks of the holy river Ganga, a Rishi, or sage, in whose hut, made of palm leaves, there was a mouse, which became a favourite with the seer, and was endowed by him with the gift of speech. After a while, the mouse, having been frightened by a cat, at his earnest solicitations was changed by Rishi into a cat; then alarmed by dogs, into a dog; then into an ape; then into a boar; then into an elephant; and, finally, being still discontented with its lot, into a beautiful maiden, to whom the sage gave the name of 'Postomani, or the Poppy-seed lady.' One day, whilst tending her plants, the king approached the Rishi's cottage, and was invited to rest and refresh himself by Postomani, who offered him some delicious fruit. The king, however, struck by the girl's beauty, refused to eat until she had told him her parentage. Postomani, to deceive the king, told him she was a princess, whom the Rishi had found in the woods and had brought up. The upshot was that the king made love to the girl, and they were married by the holy sage. She was treated as the favourite queen, and was very happy; but one day, whilst standing by a well, she turned giddy, fell into the water, and died. The Rishi then appeared before the king, and begged him not to give way to consuming grief, assuring him that the late queen was not of royal blood. Said he: 'She was born a mouse, and according to her own wish I changed her successively into a cat, a dog, a bear, an elephant, and a lovely girl. Let her body remain in the well; fill up the well with earth. Out of her

flesh and bones will grow a tree, which shall be called after her "Posto," that is, the Poppy tree. From this tree will be obtained a drug called "opium," which will be celebrated through all ages, and which will be either swallowed or smoked till the end of time. The opium swallower or smoker will have one quality of each of the animals to which Postomani was transformed. He will be mischievous like a mouse, fond of milk like a cat, quarrelsome like a dog, filthy like an ape, savage like a boar, and high tempered like a queen.'"

No authority is given for this legend, and this lack of references is a noticeable fault in the book.

There are three indexes, which is a mistake. Nothing would have been lost, and much would have been gained, by combining them into one. The first is of legends and myths, the second general, and the last of plant names.

The book is printed by the author, and is handsomely got up. Printers' errors are few, though we have noticed some in the names of plants.

A Companion to the United States Pharmacopœia, being a commentary on the latest edition of the Pharmacopœia, and containing the descriptions, properties, uses, and doses of all official and numerous unofficial drugs and preparations in current use in the United States, together with practical hints, working formulæ, &c. Designed as a ready reference book for pharmacists, physicians, and students. With over 650 original illustrations. By Osear Oldberg, Phar.D., and Otto A. Wall, M.D., Phar.G. London: S. Low & Co. 1884. Pp. 8 + 1, 216.

PHARMACISTS in the United States seem addicted to big books. Some of them have been in existence for more than a generation. This, the latest competitor for the patronage of the 30,000 pharmacists and practitioners in the United States, has some distinctive features. Its authors have managed to give it an attractive flavour of practicality and familiarity with working laboratories and drug sales. What is printed in the Pharmacopœia is here only referred to and explained, not reprinted. Botanical descriptions and the physiological actions of medicines, with other matters not of practical use, are omitted. Most drugs in common use not mentioned in the Pharmacopœia are dealt with. The illustrations are most of them from original drawings by Professor Wall, and are really illustrative. The system of weights and measures is peculiar. The Pharmacopœia parts by weight are translated into working quantities of weights and measures; but the metric system is given the preference, the avoirdupois weights and United States ("wine") measures being given in brackets. This loads the text with figures, in some cases to an unpleasant extent, and we cannot see the need of the insertion of the figures of the metric system. The relation between these weights and measures is so simple that parts by weight need no calculation for their adjustment. One rather useful feature is the constant supply of data of the weights of different volumes of liquids of varying specific gravity. Under the head of alcohol is a table giving the weight of 40 to 50 gallons of standard alcohol measured at the standard temperature, so that the contents of a barrel can be easily checked, no matter what the temperature. This table is not adapted for use in this country, as the United States gallon is the old wine-measure of $6\frac{3}{4}$ imperial pints. In nearly every case the physical characters which form the best rough tests of quality are described. The weights of original packages and the comparative value of different qualities of drugs are often given. A section of 70 pages is devoted to the use of the microscope in pharmacy. There are other chapters on the administration of medicines, extemporaneous prescriptions, signs, abbreviations, &c., used in prescriptions, doses, approximate measures, weights and measures, specific gravity, and specific volume. The appendix gives formulæ of elixirs, one of which we quote for its own sake, and as an illustration of the system of weights and measures used in the book.

BEEF, WINE, AND IRON.

Dissolve 50 grammes (1 oz. 334 grs.) Liebig's extract of beef in 150 c.c. (5 fl. oz.) of hot water. Add 600 c.c. (20 fl. oz. U.S.) sherry wine, and 120 c.c. (4 fl. oz.) simple syrup.

Dissolve 250 grammes (100 grs.) soluble phosphate of iron

(U.S. P., 1880) in 30 c.c. (1 fl. oz.) hot water, and add this solution to the beef and wine. Finally, add enough water to make the whole measure 1,000 c.c. (34 fl. oz.).

Each tablespoonful (20 c.c.) contains 12.5 centigrammes (2 grs.) soluble phosphate of iron.

It should be noted that the United States fluid ounce equals $1\frac{1}{2}$ fl. oz. imperial. The 250 grammes of soluble phosphate of iron is a palpable misprint for 6.25 grammes.

The list of synonyms at the head of each article gives the names in all important European languages, including Swedish, the latter clearly the work of Dr. Oldberg.

The index fills 72 pages.

Although specially designed for American pharmacists, it will prove useful on this side.

MR. WM. CANNING, referring to a paragraph we published last month, stating that Dr. Julius Wise, in America, was preparing an "Encyclopedia of Medical Wit," &c., asks us to state that he has been engaged for some months on a somewhat similar scheme, though he does not aspire to form an "encyclopedia." He will be much obliged for contributions, which may be sent to him, care of Mr. C. C. Canning, 37 Leicester Square, W.C.

THE *Therapeutic Gazette*, published at Detroit, U.S., by Mr. George S. Davis, of the firm of Parke, Davis & Co., is to be edited in future by Dr. Horatio C. Wood, the principal editor of Wood's "Dispensatory," and by Dr. Robert Meade Smith, Professor of Comparative Physiology in the University of Pennsylvania. It is intended to make a special feature in this journal of the study of the physiological action of drugs, and the therapeutical indications afforded by such action.

THE *Quarterly British Journal of Homœopathy* has ceased to exist, after being published for forty-two years. This, it appears, is not to be regarded as an indication of the decline of homœopathy. On the contrary, the journal has been only too successful. Its *raison d'être*, the exposition of the system of Hahnemann, is no longer necessary. If the world is not converted, it has had plenty of opportunity, and the journal having thus fulfilled its mission, bows and steps out of the arena.

WE have received a poor little 24-page pamphlet, in paper covers, bearing the following title:—"One Shilling. By C. E. Meetkerke. The Medicine Stamp Tax. Its Origin. Its Danger. Its Injustice. Its Evil Tendencies. Its Endorsement of Quackery. Its Hardship on the Poor. Wyman & Sons, 74 & 76 Great Queen Street, W.C." The compiler of this pamphlet makes no attempt to give information. He has done nothing but string together some of the absurd and contradictory statements which have been lately published about the patent medicine stamp in letters to the *Times* and in the medical papers. He believes, or tries to make his readers believe, that quinine, morphia, strychnia, atropia, and other medicines are better prepared out of this country, and that, if they are so prepared abroad, they have to be stamped when sold here. This is only a specimen of the way misleading statements have been taken without any verification. There is no decent attempt on the part of the writer to understand the subject on which he writes, and yet in offering this wretched halfpenny book for a shilling he has the coolness to choose for a motto the words of Shakespeare:—

By heaven! I had rather coin my heart,
And drop my blood for drachmas, than to wring
From the hard hands of peasants their vile trash
By any misdirection.

We wrote to Messrs. Wyman & Son to ask to be informed of the status of Mr. Meetkerke, but, as we expected, have received no reply. It is worthy of notice, however, and we give the author the benefit of the advertisement, that the *Lancet* of November 8 describes this production as "a work which deals exhaustively with the subject."

CUSTOMER: "Have you any court plaster?" American druggist: "No; but here's some sticking plaster. You see, we have no royal family in this country, and therefore no court, and consequently no court plaster. If your finger is cut you will have to take a piece of the democratic article, or go somewhere else."

Scientific Notes:

On Chemistry, Pharmacy, Botany, Materia Medica, &c., Original, Selected, and Translated.

ANTIPYRIN.

THE *Archiv der Pharmacie*, September, and the *Pharmaceut. Centralhalle*, September 11, 1884, contain articles on the new febrifuge, antipyrin; the one by Dr. Schweissinger, of Heidelberg, and the other by B. Reber, hospital apothecary at Geneva, in both of which excellent pyretic properties are claimed for the medicament.

Antipyrin is a coal tar derivative, discovered and patented by Dr. Knorr, of Munich, and solely prepared by Meisher, Lucius & Brüning, of Höchst-on-the-Main. It is brought into the market in the form of a voluminous crystalline powder of a reddish grey or white colour, which exhibits under the microscope laminae and imperfect columns. It has a bitter taste, which is, however, neither so marked nor persistent as quinine. Antipyrin is soluble in ether and in water, more especially in the latter menstruum, from which it crystallises in large well-formed oblique rhombs. It melts at 113° C. Prof. Filchue, of Erlangen, and a number of other German physicians, have found that in cases of high fever antipyrin caused a reduction of 2° C. to 3° C. unaccompanied by any secondary ill effects, and it has been found efficient even in cases where quinine had proved powerless. Antipyrin is considerably cheaper than quinine.

MERCURIOUS TANNATE—A NEW ANTISYPHILITIC.

A CORRESPONDENT of the *Pharmaceutische Centralhalle*, October 9, 1884, writes:—"The new antisyphilitic, mercurous tannate, is still so dear that it may be worth the while of pharmacists to prepare it themselves," and gives the following method of preparation:—

Fifty parts of freshly-prepared mercury subnitrate, as free as possible from oxide, are finely pulverised in a mortar, and then mixed therein with 30 parts of tannic acid and, after a while, with 50 parts of water, the whole being thoroughly triturated until a complete paste has been formed and no hard particles are felt at the bottom of the mortar. A further quantity of water is then gradually added, the superabundant liquid decanted, and the greenish precipitate repeatedly washed with cold water until the water running off ceases to show a reaction of nitric acid. The precipitate is then dried in a moderately warm place. Prepared in this way 100 parts of mercury subnitrate yield 64 parts of mercurous tannate.

Care must be taken that, at the beginning of the operation, no more water is added than that above mentioned (50 parts to 50 parts mercury subnitrate), since the reaction of tannic acid with the mercury salt is only completely effective in this concentration; any larger quantity of water would cause the formation of basic mercury nitrate. For the same reason the mercury salt must first be rubbed up dry with the tannic acid before adding any water at all. The crystals of mercury subnitrate must also be, as far as possible, free from adherent nitric acid.

DOUBLE SALTS OF CAFFEINE.*

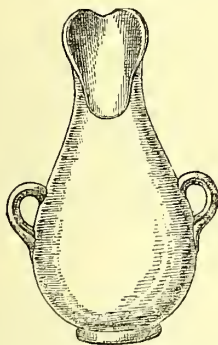
THE employment of caffeine in medicine has hitherto been considerably impeded by the insolubility of pure caffeine on the one hand, and the instability of its known salts on the other. E. Merck claims to have now succeeded in preparing perfectly soluble and stable salts of caffeine, which consist of double salts of the base with soda, and salicylic, and benzoic acids respectively. These salts are prepared in the relation of their equivalent weights—the caffeine sodium benzoate containing 45.8, and the corresponding salicylate 62.5 per cent. of caffeine. These compounds each dissolve in 2 parts of boiling water, the solution remaining perfectly intact on cooling even to zero.

* *Pharmaceutische Post*, September 13, 1884.



DR. SPENCER THOMPSON'S ORO-NASAL STEAM INHALER.

THIS inhaler, illustrated below, is being introduced by Mr. Wm. Toogood, of Mount Street, Grosvenor Square, W. It is made in terra-cotta or white earthenware, and the engraving does not give quite an adequate idea of its elegance of form. In this respect, at least, it is an improvement on the old kinds, which could hardly be described as ornamental. The terra-cotta inhalers are just made to be painted on in the present pretty fashion, and when thus adorned become really handsome ornaments for a bracket or



mantelshelf. As shown by the engraving, the lip of the inhaler is cut away so as to admit mouth and nose; and when filled with hot water, plain or medicated, with mouth and nose in proper position, and a handkerchief thrown round the crevices, it would be difficult to prevent all the air passages from being filled with the vapour—no exertion being needed to draw it to the desired spot.

The administration of medicines in vapour and the use of plain water vapour in therapeutics have greatly increased during the last year or two. The extension has not been so rapid as it might have been, owing to the difficulty of obtaining inhalers in many districts. It is not rash to prophesy that inhalers will be leading articles this winter, and that the display of different styles and prices, with good suggestions as to methods of use, will bring many customers. The medical practitioners in the neighbourhood might be reminded that a stock is kept, and it would have a good effect to send them circulars, giving descriptions of the various styles kept on hand, and illustrated with engravings, which might perhaps be borrowed from the makers.

ESSENTIAL OIL OF CAMPHOR.

IN July last we published some account of a Japanese essential oil of camphor. It appears there was a quantity of this article on the London market, and we understand Messrs. Wright, Layman & Umney have, as far as possible, bought up all that could be had. They believe this essential oil is well suited for liniment, and that it is calculated to displace the greasy camphor oil now sold. It is certainly a cleaner preparation, and we have little doubt that it will be found of considerable use, and it is offered at a moderate price. The oil is distilled from the wood of the camphor-tree, and chemically is a saturated solution of camphor in a terpene in the proportion of about 1 in 4. It has a persistent odour, but not of camphor simply—more like a combination of camphor and cinnamon.

WARREN'S PATENT EMBOSSED-GLASS TABLETS.

WORKS have been established at Hammersmith for the production on a large scale of embossed-glass tablets and decorations under a new American patent process. Hitherto two processes have been in use for the production of embossed designs on glass. In one the design is traced on glass in such a manner that the lines of the pattern are left open, all the rest of the glass being protected by a varnish. Being dipped in a bath of hydrofluoric acid, the design is thus eaten out. Of late years a much cheaper process, known as the sand-blast process, has come into use, and this, we believe, has been largely employed. The glass to be engraved is covered by paper, out of which the design has been cut. The sheet is passed into a machine, where a continuous stream of sand is violently impelled against it, and the pattern is thus produced. When, as is usually the case, white designs are produced on coloured glass, the colour is not solid, but merely flashed on to the surface, and it is this surface colour which is either eaten or cut away. In Warren's patent the first-described process is adopted, but the necessity of re-tracing every plate is avoided by a kind of photographic method, whereby any number of reproductions of one design can be printed off ready for the acid application. The saving in cost and time is, of course, very considerable. The company are producing a number of beautiful designs for window-frames, lamps, and door-panels, as well as for advertising-tablets. Of the latter, tablets describing Maw's feeding-bottles, Cadbury's cocoa, Hoge's horehound honey, Pears' soap, and other transparencies, were in course of production, and, we suppose, will shortly be distributed.

MURIATE OF COCAINE.

MESSRS. ALLEN & HANBURYS have issued a circular calling attention to this compound, which they are now prepared to supply. It is prepared from the *Erythroxylon coca*, and acts as a local anæsthetic for all delicate mucous surfaces. It has been principally and successfully used as a means of causing anæsthesia of the eye, in Germany, the United States, and this country. Its success was demonstrated at the recent Ophthalmic Congress at Heidelberg.

A four-per-cent. solution seems the best form of application. Two or three drops at a time, at intervals of five minutes, are instilled on the lower lid of the eye. As a rule, anæsthesia is complete at the end of fifteen minutes, and remains for twenty minutes or half an hour, when it gradually passes away. During that period the cornea and all the surroundings of the eye may be manipulated without causing the slightest pain. No unpleasant after-effects are produced, the dilatation of the pupil, which appears six or eight minutes after the commencement of complete anæsthesia, does not interfere with sight, and passes away in a brief time.

Similar remarkable anæsthetic effects are produced on the other mucous surfaces. The therapeutic effects of the drug from internal administration have not been thoroughly worked out.

POMADE FOR POLISHING METALS.—An ounce and one-half of good cocoanut soap is scraped fine and heated with just enough water to make a thick pasty mass. Mix 75 grains of "new" or so-called "English" rouge with a little water in which 22 grains of ammonium carbonate have been previously dissolved. Mix the soap and rouge-solutions thoroughly and set aside. When cold the pomade may be put in earthen or stoneware boxes, to suit the convenience.—*Wochenschrift fuer Drog. und Farbenhandel*.

[A most excellent preparation.—Editor, *National Druggist*.]

Trade Notes.

MESSRS. OSCAR SUTTON & Co., of Preston, are extending their premises in order to keep up with the increasing sales of their "O.S." tooth-block.

* *

MESSRS. SAMUEL LAMBERT & Co., drug merchants and importers, have changed their address from 137 to 132 Fenchurch Street.

* *

Mr. JOHN MORGAN RICHARDS, general depôt for American medicines, so long established at 92 and 93 Great Russell Street, has removed to larger premises, 46 Holborn Viaduct, London, E.C.

* *

MR. E. BENTLEY has retired from the business hitherto conducted by him at Tabernacle Street and Hill Street, Finsbury, London, and is succeeded by his two sons, who will carry it on under the title of E. Bentley & Sons.

* *

FEEDING-BOTTLES.—Messrs. May, Roberts & Co. send us a sample of well-made simple feeding-bottles, called the "Popular" and the "Colonial," which they are offering at remarkably low prices.

* *

We have also received from Messrs. Hearn, Riddell & Co., of Kingsland Road, a good white glass bent-neck bottle, fitted with glass screw-stopper and black rubber fittings, which they call "Our Little Pets." There is neither metal nor earthenware in any part of the fittings of this bottle, which should meet the approval of the most fastidious mothers.

* *

MESSRS. THOMPSON, CAPPER & Co., Liverpool and Manchester, wholesale and export homœopathic chemists, have appointed Messrs. Evans, Sons & Mason (Lim.), of Montreal, their wholesale agents for Canada.

* *

ON January 1, 1885, the factory and warehouse of the "Insecticide-Galzy" will be removed from 28 rue Bugeaud, Lyons, to more commodious premises, 71 Cours d'Herbouville, in the same town. The change is necessitated by increased business.

* *

MR. EDWIN R. BIGGLESTONE, chemist, of Canterbury, whose perfumes, as we have before stated, have acquired favour in royal circles, has lately brought out a very fine and true representation of the heliotrope, both as a liquid and a sachet perfume. Both of these he offers to the trade in bulk.

* *

We mentioned in September that Mr. Henry Brittain, of Birmingham, had gone out to the East to introduce certain English patent medicines in India, Burmah, the Straits Settlements, &c. We understand that, besides those we then named, Mr. Brittain is commissioned to introduce Messrs. Clarke, Bleasdale, Bell & Co.'s "Tikheel" in those countries.

* *

BUNSEN'S "Annattoine," manufactured by Messrs. Bunsen Benson & Co., of Fann Street, E.C., is a new butter-colouring agent, which is declared to be of purely vegetable nature, and is recommended for the reason that, being an oily solution, the colour is only spent on the buttery portion of the cream, while the butter-milk passes away almost unaffected. The colour imparted is a rich golden.

* *

"SPRATTS PATENT" have sent us a copy of their new illustrated price list of dog, poultry, and pigeon appliances manufactured by the firm. It fills forty pages, and will open the eyes of most of our readers to a whole region of invention and ingenious device of which they have probably never dreamed. Few chemists in country and market towns would fail to find in it some appliance which they could dispose of.

MESSRS. ARUNDEL & MARSHALL have sent us a number of samples of the "folding-cases" made by them for packing bottles, powders, &c. These are made of cardboard, and are generally printed all round. A bottle or packet of powder is instantly slipped into the case made for it, the top and bottom ends folded over and secured, and the parcel is thus finished off strongly and handsomely. These cases can be made with corrugated linings, to adapt them for safe transmission by parcels post.

* *

MESSRS. R. M. MILLS & Co., of Bourne, have issued an interesting little pamphlet, in which are described, not only the peaceful industry of the manufacture of aerated waters, with which they themselves now largely contribute to make the Lincolnshire town notable, but some of the stirring events which have made Bourne one of the nerve-centres of England, especially the epoch when Hereward, the Lord of Brunne, formed there his Camp of Refuge, and so long kept at bay the forces of William the Conqueror.

* *

MR. F. H. BOWDEN, of Madras, India, has come to this country, and resides at 29 Lansdowne Road, Croydon. His object is to establish here several Indian remedies which have been for many years most successful among the native and European populations of India. One of these is "Thilum," a cure for neuralgia and other complaints, and another, called "Hippacea," is a special application for cuts, bruises, and other affections of horses. Mr. Bowden wishes to establish agencies for his preparations among chemists.

* *

DALE'S gold medal porpoise-oil dubbin is a seasonable article, the sale of which can be easily pushed. It has received gold medals at the Calcutta and London International Exhibitions this year, and at the Fisheries Exhibition last year. Experiment proves that, while it softens and waterproofs the leather of boots, it does not prevent a good polish being given to them. The manufacturer claims that it preserves boots and other leather goods, and makes them wear three times as long as they would without it. Whether this claim is just or not, we think that, in town and country alike, a chemist has only to put this judiciously before his customers to sell plenty of it. Good show-cases, cards, transparencies, and printed matter are supplied with the first order for 50s. worth. It is put up in 1d., 6d., and 1s. sizes.

Personalities.

SIR ERASMUS WILSON'S great wealth is said by the *Phil. Med. and Surg. Reporter* to have been acquired principally through fortunate investments in gas and other London stock.

MR. WALTER SLOAN GALBRAITH, chemist, of Glasgow has been elevated to the Bench as a junior magistrate of the Burgh of Kinning Park, Glasgow.

MR. YOUNG, of Nottingham, has purchased the business of Mr. Foster, of Pontefract, Mr. Fowler valuing for vendor and Mr. Brett for buyer.

MR. NICHOLSON, of Argyle Street, Birkenhead, has sold his business to Mr. Crofts, of Leicester, through the agency of Mr. Brett, of Leicester.

MR. TAYLOR, of Daventry, has taken into partnership Mr. G. Desborough, of Stamford. The negotiations were conducted by Mr. Brett, of Leicester.

MESSRS. BERRY & Co., homœopathic chemists, Northampton, have sold their business to Mr. Cowdery, late of Birmingham. The valuation was conducted on behalf of both parties by Mr. Brett, of Leicester.

MR. HUTCHINSON, of Blackpool, has sold his business to Mr. Parkinson, from Messrs. Bell & Co., London. Valuation was conducted for both parties by Mr. Brett, of Leicester.

MR. WOOLLEFF, of Leicester, has purchased, through Mr. Brett, the branch business of Messrs. Butler & Son, of Waterloo Street. Mr. Woolleff has now three businesses in this town.

MESSRS. BARNES & SON, Fishergate, Preston, have sold their business to Mr. Arkle, of Lancaster. Valuation was conducted on behalf of the vendors by Mr. Noad, and for purchaser by Mr. Brett.



[The following list has been compiled expressly for THE CHEMIST AND DRUGGIST by G. F. Redfern, Patent Agent, 4 South Street, Finsbury, London, and at Paris and Brussels.]

Applications for Letters Patent:—

- Administering Anæsthetics.**—13,645.—October 15, 1884.—A. T. Clarkson. Improvements in means for regulating the supply in the administration of anæsthetics.
- Aërating, &c. Liquids.**—13,334.—October 8, 1884.—C. W. Harrison. Improvements in the means of aërating, preserving, and improving liquids, and in the apparatus used therefor.
- Alkali Carbonates.**—13,590.—October 14, 1884.—P. Jensen; a communication from A. Vogt and A. Figge, of Westerhansen. Improvements in the production of alkali carbonates, and in apparatus therefor.
- Anti-catarrhal Band.**—13,857.—October 20, 1884.—Elizabeth Mary Moore, of Comeragh Road, West Kensington, London. An anti-catarrhal band.
- Bandages.**—13,846.—October 20, 1884.—N. C. Sverdrup, of Bickley Row, Rotherhithe, London. The improvement in ladies' periodical bandages.
- Beverages.**—13,254.—October 6, 1884.—J. M. Hale, of South Street, Finsbury, London. Improvements in the manufacture of non-alcoholic beverages.
- Bottles.**—13,482.—October 11, 1884.—S. Hartley. An improved apparatus for making "grooves" in the rings of glass bottles for containing aërated or other waters or liquids.
- Bottles.**—14,506.—November 3, 1884.—E. Rylands, of Stairfoot, near Barnsley, Yorkshire. Improved means or arrangements for making bottles with distinctively coloured mouths or rings on neck.
- Bottles and Stoppers.**—13,246.—October 6, 1884.—T. Sutcliffe. Improvements in the manufacture of bottles for containing aërated waters, or for other purposes, and in the tools to be used in the said manufacture, and in the stoppers or means for closing the said bottles.
- Bottles and Stoppers.**—13,842.—October 23, 1884.—E. W., and T. W. Hazlehurst, all of Oldham, and J. Wolstenholme, of Werneth, Oldham. Bottles and stoppers.
- Bottles and Stoppers.**—14,230.—October 29, 1884.—F. A. Bird and J. B. Fenby, of Birmingham. Improvements in bottles and stoppers for the same.
- Cleaning Bottles.**—14,031.—October 23, 1884.—F. Cook. Improvements in apparatus for soaking, brushing, and rinsing bottles.
- Coating Ointment Boxes, &c.**—13,542.—October 14, 1884.—W. Charleson. Improvements in varnish or composition for coating ointment boxes and other articles and bodies.
- Filtering, &c. Water.**—13,529.—October 13, 1884.—W. Pankson, of Mountsorrel, near Loughborough, Leicestershire. Improvements in the filtering and aërating of water.
- Filters.**—13,343.—October 8, 1884.—P. A. Maignen. Improvements in filters.
- Filters.**—13,782.—October 18, 1884.—E. M. Knight. Improvements in filters.
- Filters.**—14,019.—October 22, 1884.—C. E. Gidins. Improvements in filters.
- Medical Compound.**—14,187.—October 27, 1884.—H. J. Allison; a communication from E. A. Guptill, of the United States. An improved medical compound.
- Medicated Paper.**—13,343.—October 8, 1884.—W. R. Lake; a communication from S. Wheeler, of the United States. Improvements in the manufacture of medicated paper, and in apparatus therefor.
- Medicinal Preparation.**—13,604.—October 15, 1884.—E. A. Parnell. An improved medicinal preparation.

- Portable Filters.**—13,346.—October 8, 1884.—P. A. Maignen. Improvements in portable filters.
- Preparing Books to Hold, &c., Chemicals, &c.**—13,961.—Oct. 22, 1884.—H. Rees, of Falcon Road, Battersea, London. A method of preparing books to hold, convey, and exhibit chemicals, colours, and useful preparations, combined with instructions for their application.
- Purifying, &c. Crude Nitric Acid.**—14,173.—October 27, 1884.—J. W. Pratt, of Liverpool. Improvements in purifying and decolourising crude nitric acid, and in apparatus therefor.
- Purifying Glycerine.**—13,925.—October 21, 1884.—A. M. Clark; a communication from F. H. Houghton, of the United States. An improved process of, and apparatus for, purifying glycerine and other substances.
- Purifying Paraffin Oils.**—13,446.—October 11, 1884.—G. T. Beilby. Purifying paraffin oils.
- Purifying Water.**—14,478.—November 1, 1884.—F. B. Döring. Improvements in apparatus for purifying water.
- Purifying Waters.**—13,588.—October 14, 1884.—E. Capitaine; a communication from M. Nahsen, of Schönebeck a. d. Elbe. Purification of waters.
- Recovering Paraffin, &c., from Oils.**—13,579.—October 14, 1884.—H. H. Lake; a communication from R. H. Smith, of the United States. An improved method or process of, and apparatus for, recovering paraffin, stearine, or similar wax-like substances from petroleum or other oil.
- Removing Stoppers from Bottles.**—14,369.—October 30, 1884.—F. J. Beaumont and F. S. Turner. An improved means, and apparatus for, removing globular and like internal stoppers from the necks of bottles containing aërated or gaseous liquids.
- Soap.**—13,553.—October 14, 1884.—B. Hammond, of Guildford, Surrey. Improvements in the manufacture of soap.
- Solidifying Paraffin.**—14,114.—October 25, 1884.—F. N. Mackay and W. Baxter. Improvements in apparatus for solidifying paraffin in oils.
- Stopping Bottles.**—13,268.—October 7, 1884.—W. P. Thompson; a communication from H. Spriegel, of Dantzig.—13,419.—Oct. 10, 1884.—T. Hale.—13,485.—October 11, 1884.—W. Shepherd.—13,483.—October 11, 1884.—W. H. Hall, South Street, Finsbury, London.—13,812.—October 18, 1884.—D. Rylands.—14,032.—October 23, 1884.—H. Arch, senior, and C. Wozencroft, both of Hunslet, Leeds.—14,151.—October 25, 1884.—R. S. Lloyd.—14,171.—October 27, 1884.—S. Bunting and F. O'Rorke, both of Dublin.—14,178.—October 27, 1884.—S. Hill.—14,217.—Oct. 28, 1884.—H. James and G. Robinson, both of Sheffield.—14,226.—October 28, 1884.—J. Wilkinson.—14,287.—October 29, 1884.—C. F. and S. F. Cohen and J. H. Hamilton.—14,334.—Oct. 30, 1884.—W. Smith, of Sparbrook, Birmingham.—14,354.—Oct. 30, 1884.—J. Phillips, of Liverpool Street, Walworth Road, London.
- Supporting Casks, &c.**—14,523.—November 3, 1884.—W. Walker. An improved method and apparatus for supporting casks, drums, and other like vessels, to facilitate easy transport or removal, and of emptying the same gradually.
- Suture Appliance.**—13,196.—October 4, 1884.—J. Mac Munn. A new or improved suture appliance or apparatus for approximating the edges of wounds.
- Syphon-holding Apparatus.**—13,820.—October 18, 1884.—An apparatus for holding syphons for aërated water while cleaning the syphon-head.
- Tanks for Oil, &c.**—13,851.—October 20, 1884.—P. Molynx, of Hawgood Street, Devon's Road, Bromley-by-Bow, London. Improvements in the construction of sunk tanks for storing oil and spirits.
- Tooth-brush.**—13,142.—October 3, 1884.—J. C. S. Harper, of Halliford Street, London. An improved tooth-brush.
- Tooth-powder.**—14,299.—October 29, 1884.—W. K. Ferguson. A tooth-powder or dentifrice spoon.

CHLOROFORMING A STREET.—A Bordeaux paper relates a somewhat incredible incident as having occurred there recently. A pedestrian in the vicinity of the Rue St. Jacques observing only sleepers in the shops, ran to inform the police of the strange occurrence, the cause of which was quickly discovered. The employés of a large druggist's establishment in the street had carelessly overturned on the pavement a huge receptacle filled with chloroform, and the authors of the accident were the first to suffer from its effects. The street being a narrow, ill-ventilated one, the vapours of the powerful drug did not escape, the consequence being that all the tradespeople on the ground-floor were rendered insensible. The resoratives, speedily administered, brought them round before long.

Trade Report.

THE returns issued by the Board of Trade for the month of October give the following results:—

	October, 1882	October, 1883
Total value of imports	£ 31,097,132	£ 35,833,755
„ exports	20,414,162	21,138,859

It is not the case that the total volume of trade through all departments is diminishing. The reduced figures are mainly the result of general lower prices, while in the case of the imports the reduction is, to a large extent, due to the favourable fact of the last abundant harvest, which has enabled the country to purchase less food than usual.

Below we extract the statistics relating to drugs and chemicals:—

Imports.

	Oct., 1882	Oct., 1883	Oct., 1884
Quicksilver lbs.	72 000	16 332	100 490
„ value £	5,750	1,149	7,506
Chemical manufactures and products (besides alkali, brimstone, saltpetre, and manures) value £	122,670	137,436	125,136
Dyes (coal-tar)—			
Aniline value £			29 411
Alizarine „	48,848	34,315	15,202
Other coal-tar dyes „			90
Indigo „	16,141	64,925	33,359
Bark, Peruvian cwt.	10,865	6,808	8,591
„ value £	134,858	76,520	69,751
Gum arabic cwt.	7,918	5,105	7,571
„ value £	18,846	11,778	22,122
Drugs, unenumerated „	92,218	125,433	50,738

Exports.

	Oct., 1882	Oct., 1883	Oct., 1884
Alkali cwt.	655,096	683,118	658,979
„ value £	203,508	219,464	193,942
Bleaching materials or preparations cwt.	137,900	152,700	171,542
Ditto, ditto value £	29,700	53,320	67,432
Medicines (comprising drugs and medicinal preparations) cwt.	78,511	76,928	86,234
Bark, Peruvian cwt.	3,912	4,258	10,844
„ value £	43,567	27,634	64,288

MINCING LANE, November 13.

THE better position of our markets has been maintained, and although business continues to be restricted through the unsettled state of affairs both at home and abroad, there is decidedly more general inquiry, which should develop into good business so soon as the present obstacles are removed.

The value of money has rapidly increased of late, the bank rate having been advanced on October 30 to 4 per cent., and again to 5 per cent on the 6th inst., and, considering the demand for gold in America and other countries, and the quantity required for Egypt just now, cheap money is hardly to be expected for some time to come.

It is stated that, notwithstanding the large quantities of gold recently sent to the United States, a further sum of 10 less than five million pounds sterling will be required by America between now and February next.

The last time the bank rate was raised to 5 per cent. was upon September 14, 1882, when it maintained that level for more than four months, until January 24, 1883.

Taken generally prices of most articles have varied very little since last month, with the exception of iodine and its products, which, owing to a reported combination of manufacturers, has suddenly considerably increased in value to more than double last prices.

Quicksilver, foreign tartaric acid, and cream of tartar are

all slightly dearer, while prices of quinine, carbolic acid, and bleaching powder have become lower.

As the end of the year approaches so the drug sales become heavy and sluggish, many lots being offered by holders anxious to clear or close accounts; a considerable quantity of London stocks being now the subject of advances made by bankers and brokers, whilst on the other hand druggists are disinclined to increase the intricacies of their coming stock-takings by unnecessarily augmenting their holdings at the present moment; thus it is that both on the 30th ult. and to-day large quantities of numerous articles were offered with only small sales resulting. Moreover, under the enhanced value of money many advance accounts will be brought to a close which under former low rates of interest would have been suffered to continue.

ACIDS.—Citric has lost the slight advantage lately gained, and has receded to 1s. 5d. to 1s. 5½d. per lb., with very limited inquiry. Tartaric, although price of English make remains 1s. 8d. per lb., foreign has further improved to 1s. 7½d. per lb., with steady business thereat.

Ovalic Acid remains exceedingly quiet at 6d. per lb.

ALOES.—In consequence of the large quantities of all descriptions now offering, prices have given way all round. Cape, 25s. to 40s. per cwt.; Socotrine, 3l. to 7l. 10s. per cwt., and other sorts similarly lower.

ALUM.—At unchanged prices a steady home trade is doing, and for shipment a decidedly increased demand exists.

AMMONIA.—Sulphate gray 24 per cent. is lower at 13l. 15s. per ton, with a fair trade. Carbonate remains neglected at 5d. to 5½d. per lb.

ANTIMONY.—Crude has further gone back in value to 21l. per ton, and less still has lately been accepted for large quantities. It is worthy of note, however, that if, as asserted, the Japanese crude cannot be put down here, cost and freight, for less than about this figure, we ought to be near to bottom prices, although the large stocks here may help to keep quotations low for some time to come.

ARSENIC meets with less inquiry, although prices are unchanged at 12s. 6d. to 12s. 9d., powdered white, per cwt.

BALSAMS are in very poor demand, with prices hardly maintained. Tolu, 2s.; Capivi, 1s. 8d. to 1s. 10d.; Peru, 7s. 6d. per lb.

BARK continues very flat, and in last sales out of about 1,400 bales South American only 150 found buyers at late rates; but of 1,000 packages Ceylon offered 800 sold, principally because for this quality slightly easier rates were accepted all round. At the present moment Ceylon supplies are being held back, although a very fair quantity indeed has been shipped during the season just closed, amounting in all to 11½ million pounds against about only 7 million in the previous season.

Java Bark continues to be shipped in increasing quantities

BLEACHING POWDER has further receded to 8l. 10s. per ton ex warehouse, at which price it meets with moderate business.

BORAX.—All makes are now quoted 40s. per cwt., at which a steady trade is being done.

CALUMBA ROOT.—Large quantities being again placed upon the market, values have become still further reduced and dull; quality has changed hands at less than 20s. per cwt.

CAMOMILES continue in restricted demand at unchanged prices.

CAMPOR.—Raw Japan has been sold in fair quantities lately, reweights at 53s. to 53s. 6d., and new landed at 52s. 6d. per cwt. Refined qualities are easier; English Bells 11d., foreign 10½d. per lb.

CANTHARIDES.—Russian continue to be held for 7s. 6d. per lb., but we have heard of no actual business of late.

CARBOLIC ACID is easier and in only moderate demand 97 per cent. acid is now obtainable at 1s. 9d. per gallon.

CARDAMOMS are in poor demand; short clipped Malabar 6s. per lb., fine Aleppy 4s. 10d. to 5s. per lb.

CASSIA LIGNEA is flat at 29s. per cwt.; about 600 boxes of broken lately sold in auction at reduced price of 25s. 6d. per cwt.

CASTOR OIL.—K B. firsts $3\frac{1}{2}d.$, D.B. $3\frac{3}{4}d.$, and econada seconds $3\frac{1}{16}d.$ per lb., with very little business in either sort.

CLOVES have been in good demand with considerable business of late, good bright Zanzibar touching $6d.$ per lb.; prices have become somewhat easier, however, during the last few days, and they are now quoted $5\frac{1}{2}$ to $5\frac{7}{8}d.$ per lb.

CHIRETTA.—Prices nominally $4d.$ to $5d.$ per lb.—nothing doing.

COCHINEAL has considerably improved, but present advanced rates are somewhat checking trade quotations. Tene-riffe, $1s. 3d.$ to $1s. 6d.$; silver, $1s. 1d.$ to $1s. 3d.$ per lb.

COD-LIVER OIL.—Both Norwegian and Newfoundland are in plentiful supply at from $3s.$ to $6s.$ per gallon, according to quality, but even at these low rates business is very hard to secure.

CREAM OF TARTAR has improved to $133s.$ per cwt. for "firsts," at which price a good business has lately been done, although now it is somewhat quieter.

CUBEBS well maintain their position, although since date of our last report some fairly heavy parcels have appeared on the market; they have been cleared off, however, and prices remain very steady at $10l.$ to $12l.$ per cwt. for natural to good natural berries.

ERGOT OF RYE.—Russian at $6d.$ and good Spanish at $9d.$ per lb. fail at the moment to find buyers.

ESSENCE OF LEMON at the lower prices continues in fair consumptive demand.

GALLS are very quiet China; nominally $35s.$ per cwt.

GENTIAN ROOT.—Some considerable business lately done at $22l.$ to $22\frac{1}{2}l.$ $10s.$ per ton.

GINGER is not quite so firmly held, some Jamaica having recently changed hand at $57s.$ to $63s.$ per cwt., ordinary to middling qualities.

GUM ARABIC is firmer, some fairly large sales of new brown Barbary having taken place at $55s.$ to $56s.$ per cwt., and Turkey sorts continue to be firmly held for $85s.$ to $95s.$ per cwt.

GUM ASAFCETIDA is in demand, with good business at $25s.$ to $54s.$ per cwt., according to quality.

GLYCERINE continues very steady at unchanged prices of $50s.$ to $55s.$ per cwt., for finest quality.

HONEY.—Lower descriptions are in plentiful supply at easy rates, although the better sorts of Californian and French are held for full prices.

IODINE.—In our September report, we informed our friends of rumours of another "combination" of iodine makers, which has so far developed as to make present quotations more than double what they were last month, dry being now quoted $10\frac{1}{2}d.$, and resublimed $1s.$ per oz. We are not in a position to say whether the agreement has been finally settled or not. Iodine has always been remarkable for its "combinations"; even before the introduction of the Peruvian product on the London market, combinations on the part of makers took place from time to time, causing similar rapid rises in price, as also equally sudden falls in value whenever such combinations were broken up. Considering that the former quotations of $4d.$ to $6d.$ per oz. are generally supposed to leave a fairly handsome profit to the maker, we hardly expect that consumers will lay in much stock at the suddenly enhanced fancy figures. The iodine makers, who, of course, have a perfect right to establish their own prices, are to be congratulated upon their present position; how long it will last, however, remains to be seen, as the present grand rates of profit may possibly lead to unlooked for results.

IPECACUANHA continues fairly brisk at prices ranging from $2s. 3d.$ to $4s.$ per lb., according to quality and condition.

ISINGLASS.—The total quantity of East India offered in last monthly sales, held October 28, amounted to 463 packages, and comprised 228 Penang, 116 Bombay, and 119 Saigon. Only 157 packages found buyers, and prices, taken generally, did not show much variation from those of previous sales. *Penang.*—Of 228 cases 100 sold. Leaf: fair to good pale, $3s. 9d.$ to $3s. 11d.$; yellowish, $3s. 6d.$; small thin, $3s. 2d.$; inferior sorts, $1s. 3d.$ to $2s. 9d.$ per lb. Purse: fine picked, $2s. 4d.$; fair to good, $1s. 9d.$ to $2s. 1d.$; inferior, $6d.$ to $1s. 5d.$ Tongue:

good heavy pale, $3s. 4d.$; bold to stout middling, $2s. 4d.$ to $2s. 10\frac{1}{2}d.$; pickings, $1s. 8d.$ to $2s. 1d.$ *Bombay.*—Of 116 cases 35 sold. Pipe: good pale bright, $3s. 9d.$; middling, $3s. 3d.$ Old tongue: fair to good pale, $1s. 4d.$ to $2s.$; fine, $1s. 1d.$ to $2s.$ Purse: fine, $1s. 10d.$; middling, $1s. 5d.$; inferior, $9d.$ to $10d.$ Kurrahee: leaf, $2s. 1d.$ *Saigon.*—Of 119 packages 22 sold. Leaf: fine bold, $4s.$ to $4s. 3d.$; middling to good stout, $3s. 4d.$ to $3s. 9d.$; inferior, $3s.$ to $3s. 3d.$ per lb. Next sales, November 25.

JALAP.—At easier rates more business has lately been done; price is now $7\frac{1}{2}d.$ to $8\frac{1}{2}d.$ per lb.

KAMALA.—Good fair quality $10d.$ per lb.

LEMON JUICE is lower at $17l.$ per pipe f.o.b. Messina, and possibly offers at still less would not be refused by holders on the other side.

MENTHOL CRYSTALS.—More competition amongst the different makes now exists, giving not only more variety in prices, but also in quality. Thus, while some holders still ask $45s.$ per lb., others are not only willing but anxious to sell at $36s.$ to $38s.$ per lb., and it is said that some of that now offering is of inferior quality.

MORPHIA SALTS remain unchanged in price, though firmer in tone, consequent upon the improved position of opium.

OPIUM has become considerably firmer during the last few days, especially for druggists' qualities.

OILS.—*Unseed* continues quiet at $6s. 9d.$ to $6s. 11d.$ per lb. unworked. *American peppermint oil*, H. G. Hotchkin, remains in a very unsettled state at $14s.$ per lb. Advices from America, like the opinions here, are very conflicting, under which circumstances, perhaps, it is natural to suppose that the price will remain at about the present figure. *English peppermint* ranges from $27s. 6d.$ to $30s.$ per lb. *Citronelle* and *Lemon grass* equal in price at $1\frac{1}{16}d.$ to $1\frac{1}{2}d.$ per oz.

OTTO OF ROSES continues to enjoy a good steady trade at unchanged prices ranging from $15s.$ to $32s. 6d.$ per Turkish ounce. Advices from Constantinople report a steady position, especially so in best brands, so that prices may be expected to maintain present values throughout the season.

PETROLEUM OIL meets with steady business, and has improved in value for spot to $6\frac{1}{2}d.$ to $6\frac{3}{4}d.$ December and January-March $6\frac{1}{16}d.$ to $6\frac{3}{8}d.$ per gallon.

PETROLEUM SPIRIT is firm and slightly dearer at for common $7\frac{1}{4}d.$ to $7\frac{1}{2}d.$; refined $8d.$ to $8\frac{1}{2}d.$ per gallon.

POTASH.—Chlorate has changed for the better, and being scarce price has advanced to $5\frac{1}{2}d.$ to $6d.$ per lb. Bichromate has become dull at $3\frac{1}{2}d.$ per lb. Prussiate continues slow of sale at $9\frac{1}{2}d.$ to $10\frac{1}{2}d.$ per lb.

POTASSIUM.—Iodide has of course followed iodine in value and is now quoted at $12s.$ per lb. Bromide steady at $1s. 5d.$ to $1s. 6d.$ per lb.; English, $1s. 4d.$ per lb., American make

QUASSIA WOOD sells now and then in small lots privately at very low figures.

QUICKSILVER has been raised to $5l. 15s.$ per bottle, and, again yesterday to $5l. 17s. 6d.$

QUININE remains in moderate to good demand. On the 1st inst. Howard's price was reduced to $4s. 3d.$ per cz. for 1-oz. vials, and other makes have since become easier. Foreign brands in tin are quoted $3s. 6d.$ to $3s. 9d.$ per oz.

RHUBARB continues in fair demand. Shensi, round good quality $3s. 4d.$, inferior $2s. 3d.$ to $3s.$ per lb.

SAFFRON.—The new crop being reported both good and plentiful, market prices have slightly given way, and fine Valencia qualities are quoted somewhat lower. The new crop cannot, however, arrive in this market before about the end of the month, and stocks of really good saffron at present available are much reduced.

SAL AMMONIAC remains steady at $40s.$ to $42s.$ per cwt.

SALTPETRE continues depressed at $22s. 3d.$ barrels, $23s. 3d.$ kegs, per cwt.

SARSAPARILLA.—In moderate demand; Honduras $1s. 9d.$ to $1s. 10d.$, and good fair Jamaica $1s. 8d.$ per lb.

SODA.—In crystals the firmness we mentioned last month has been fully maintained, advancing the price to $3l. 3s. 6d.$ per ton ex ship. Ash, however, finds hardly any business at $1\frac{1}{2}d.$ per degree landed. Bicarbonate, slow of sale at $7l. 15s.$

to 8*l*. per ton. Caustic is in fairly good demand at 9*l*. 5*s*. per ton, 60 per cent. white, and 9*l*. per ton cream. A disposition to book forward, however, at these prices does not look like higher figures just yet.

SOY has become quiet, although price of China remains at 1*s*. 6*d*. per gallon.

SULPHATE OF COPPER has given way to 21*l*. 5*s*. to 21*l*. 10*s*. per ton for "firsts," at which there are sellers.

SULPHUR.—Very dull at unchanged prices.

TURPENTINE is firmer at the following advanced rates, *i.e.*, American spirit, spot, 23*s*. 6*d*., November-December 23*s*. 6*d*., January-April 24*s*. 3*d*. per cwt.

VANILLOES are easier, and fail to make late rates.

(FROM OUR AMERICAN CORRESPONDENT.)

NEW YORK, November 1.

The home trade has been very dull during the past month, to be accounted for by the unusual interest displayed in political affairs by all members of the community. The Presidential campaign having now arrived at its climax, politics nearly altogether engross the attention of business men, to the momentary detriment of business; next week this state of things will be ended, matters will return to their ordinary groove, and it is expected before the winter sets in a large amount of business will transpire. The export demand for drugs is fairly good all round, while for some lines the amount of orders received have been larger than usually prevails at this season; especially is this the case with senega roots, bromide potassium, and oil of peppermint. Prices, as a rule, continue low, and decidedly in favour of buyers.

The following are the rates ruling for the principal export articles; the prices quoted in parentheses are the London equivalents of the rates prevailing here, all market deductions, discounts, &c., being taken into account:—

OIL OF PEPPERMINT.—A slight improvement has taken place in the market, and, in place of the extremely low prices mentioned last month, \$3 (14*s*.) is the price now quoted for H. G. Hotchkiss' oil; prime Wayne County oil is selling at from \$2.75 (12*s*. 10*d*.) to \$2.90 (13*s*. 4*d*.), according to brand. That a large amount of business is doing is shown by the very heavy exports of the last two months. The new oil began to arrive in September, and since then over 16,000 lbs. have been shipped from this port. This should convince buyers at your side that the operations of the "ring" are not to be looked for in this city, but nearer home, for it is improbable that such a large quantity as that mentioned has been taken for consumption, but most likely has gone into the hands of speculators. In these reports constant attention has been called to the advantage consumers would gain by availing themselves of the low prices prevailing to replenish their stocks, and it is to be hoped they have bought sufficient to carry them into next autumn. Competent authorities have computed the total yield in Wayne County this year to be 40,000 lbs., and it certainly is worthy of notice that already nearly half that quantity has left the country, for most of the 16,000 lbs. must have been of the new crop, it being pretty well understood that the stock of good oil was all but exhausted before the new came on the market. Some parcels of very old and mixed oil, which were pressed for sale some time ago, are still to be had, not having met a purchaser.

BALSAMS.—*Copaiba* is again cheaper; genuine Maranhão is selling at 40c. (1*s*. 9½*d*.); Maracaibo, 36c. (1*s*. 7½*d*.). *Canada* is reported scarce, but remains without alteration—\$2.80 per American gallon (1*s*. 7*d*.). *Tolu*.—Some arrivals have taken place, 39c. (1*s*. 9*d*.).

CASCARILLA AND CANELLA BARKS.—Advices from Nassau (Bahamas) state that for the last year or two the supply of both barks has been gradually diminishing, and now very little in comparison with three or four years ago is gathered and exported; at present there is none on the market there.

HONEY.—The supply of Californian honey as it arrives meets with a ready sale, especially as this year the quality is reported to be finer than usual; in cases 10c. (48*s*.) is the price of prime. As some doubt has been thrown on the genuineness of the honey, and allusion made to the mythical

existence of the bee-ranches, careful inquiry proves there are no grounds for such statements. From a letter at hand from a well-known bee-keeper the quantity of honey produced in one county of South California is stated to be 1,500 tons, the finest being made from flowers of the wild sage; this honey is white, or nearly so, and will keep well for years.

BROMIDE POTASSIUM.—A very large inquiry exists. Makers are very firm at 28c. (1*s*. 3*d*., 5 per cent.), and would like to see it dearer, being at the price unprofitable.

TONCA BEANS.—*Argostura* are easier, owing to the arrival of 16,000 lbs.; \$1.70 is the nominal price (7*s*. 3*d*.).

ESSENTIAL OILS.—*Sassafras* remains at 52c. (2*s*. 3*d*.), there being no demand. *Wintergreen* is also neglected, although the low price is tempting, \$1.90 (8*s*. 2*d*.). *Spar-mint* has advanced to \$5 (21*s*.), and very little to be had at that.

ROOTS.—The large demand for *Senega* has nearly cleared the market of prime clean Western; 48c. is still quoted (2*s*. 2*d*.); old chumpy dark quality is quoted 45c. (2*s*. 1*d*.). *Sarsaparilla*.—Mexican is in fair supply, prime dark, free from damages, being worth 10c. per lb. (5½*d*.). *Honduras*.—Total stock of all brands, 160 bales, with none to arrive; price, according to brand, from 36c. to 50c. (1*s*. 8*d*. to 2*s*. 2*d*.). The sale of M.C. Crown on the London market attracted the attention of holders of that brand here; this mark is known to be frequently imitated in London. The price of the genuine brand is 50c. (2*s*. 3*d*.). *Serpentaria* still continues scarce, and every sale drives the price higher; 50c. is now asked (2*s*. 3*d*.), and it is not improbable it will be much dearer. *Jalap* is firmly held, as no fresh arrivals have taken place, and stocks are getting small. Prime dry is quoted 15c. per lb. (8½*d*.).

SPERMACETI has advanced to 23c. (11¼*d*.), and will be higher.

A QUININE MANUFACTURER'S VIEWS.—Mr. E. Böhringer, of the firm of C. J. Böhringer & Sons, of Mannheim, has been in the United States, and was interviewed by a representative of the *Oil, Paint, and Drug Reporter*. Speaking of the quinine market, he said the low prices now ruling are unnatural, and a change for the better must soon take place. "The large supplies of East India bark, which influenced a downward tendency in quinine, are being gradually worked off, and the next year will find the stock more limited. Planters in East India have been losing money, and as the market value of bark does not prove remunerative enough for them to continue cultivation, this industry is being abandoned by a considerable number of planters, who are now substituting coffee and more profitable articles of commerce. The reported large supplies in London and elsewhere are partly useless from the fact that forty per cent. of the barks on the market are worthless for making quinine purposes on account of age. In the event of a scarcity of East India bark, manufacturers will naturally direct attention to the South American product, but the same difficulty is to be met. The low values have influenced planters to retain their holdings, as will be seen by the shipments, which have decreased from 10,000 to 1,000 packages per month. The situation, then, would seem to be right for an advance all round. If more money must be paid for South American barks, it is natural to expect the improvement to extend to quinine. In fact, there is a general expectation of a firmer market for barks and quinine. It must be remembered that the obstacle of over-production of quinine has been removed, by reason of the decreased output at the Milan factory, which is only turning out 20 kilograms per day to conform to the winding-up arrangement. Formerly the production was about 40,000 kilograms per year. As the factory is not expected to continue work, the supply of quinine will be lessened by the amount of its capacity. The stock held by bankers on account of the Milan factory was originally 21,000 kilograms, and was bought at a price equal to \$1.00 laid down here; but a good portion of that has been worked off, and it is not known how much they hold; still, it cannot be much. The production of our Mannheim factory is 25,000 kilograms per year, but we have a capacity of 10,000 or 15,000 additional. I would not think that manufacturers cared to sell at present prices, but the market being controlled in America, we have to be guided by operations here.

Monthly Price Current.

The prices quoted in the following list are those actually obtained in Mincing Lane for articles sold in bulk. Our Retail Subscribers must not expect to purchase at these market prices, but they may draw from them useful conclusions respecting the prices at which articles are offered by the Wholesale Firms.

CHEMICALS.

CHEMICALS.		Last Month			This Month				
ACIDS—		s.	d.	s.	s.	d.	s.	d.	
Acetic	per lb.	0	2½	0	0	2½	0	0	
pure	"	0	5	0	0	5	0	9	
glacial	"	0	6	1	0	6	1	0	
Benzoic Sublimate ..	per oz.	0	0	3	6	0	0	3	6
Ex Gum	"	0	6½	0	0	6½	0	0	0
Citric	"	1	5½	0	0	1	5	1	5½
Gallie	"	3	2	3	6	3	2	3	6
Hydrochloric	per cwt.	4	6	7	6	4	6	7	6
Nitric	per lb.	0	3	0	3½	0	3	0	3½
Oxalic	"	0	6	0	0	0	6	0	0
Sulphuric	"	0	0½	0	1	0	0½	0	1
Salicylic	"	6	9	9	6	6	9	9	6
Tannic	"	1	4	2	9	1	4	2	9
Tartaric, English ..	"	1	8	0	0	1	8	0	0
foreign	"	1	7	0	0	1	7½	0	0
ANTIMONY, crude ..	per cwt.	22	0	0	0	21	0	0	0
star	"	41	0	43	0	41	0	43	0
ARSENIC, lump	"	22	0	24	0	22	0	24	0
powder	"	12	6	12	9	12	6	12	9
BRIMSTONE, rough ..	"	8	0	8	6	8	0	8	6
roll	"	8	9	10	0	8	9	10	0
flour	"	10	0	12	6	10	0	12	6
GLYCERINE, German ..	"	50	0	55	0	50	0	55	0
refined	"	37	6	42	6	37	6	42	6
crude brown	"	8	0	8	2	17	0	0	0
IODOFORM	per lb.	0	4	0	0	0	10½	0	0
IODINE, dry	per oz.	0	5	0	6	1	0	0	0
resublimed	"	0	10	1	4	0	10	1	4
MAGNESIA, calcined ..	per lb.	5	0	0	0	5	0	0	0
Hwds.	"	110	0	112	0	115	0	0	0
MERCURY	per bot.	3	0	0	0	3	0	0	0
PRECIPITATE, red ..	per lb.	2	11	0	0	2	11	0	0
white	"	1	8	2	0	1	8	2	0
PRUSSIAN BLUE	"	11	6	0	0	11	6	0	0
SANTONINE	"	10	0	0	0	10	0	0	0
SALICINE	"	35	0	0	0	35	0	0	0
THYMOL	"	117	6	0	0	117	6	0	0
SALT—	"	125	0	0	0	125	0	0	0
Alum	per ton	0	5	0	5½	0	5	0	5½
Ammonia	"	600	0	760	0	600	0	760	0
Hydrochlorate, ..	per ton	307	6	0	0	307	6	0	0
crude, white	"	83	0	96	0	83	0	96	0
Sulphate	per cwt.	70	0	90	0	70	0	90	0
Argol, Cape	"	38	0	42	0	38	0	42	0
Red	"	9	0	9	3	8	6	8	9
Oporto, red	"	40	0	42	0	40	0	42	0
Bleaching powder ..	"	2	6	0	0	2	6	0	0
Borax, British refined ..	per lb.	4	5	4	7	4	5	4	7
Calomel	"	5	6	6	0	5	6	6	0
Chloral hydrate	"	23	0	0	0	23	0	0	0
Liebreich's	"	55	0	0	0	55	0	0	0
Copper :	"	1	11	0	0	1	11	0	0
Sulphate	per cwt.	131	0	0	0	133	0	0	0
Copperas, green	per ton	112	0	0	0	112	0	0	0
Corrosive Sublimate ..	per lb.	3	6	5	0	3	6	5	0
Cream Tartar, French ..	per cwt.	4	0	0	0	4	0	0	0
brown	"	72	0	0	0	72	0	0	0
Epsom Salts	"	6	0	6	3	6	0	6	3
Glauber Salts	"	2	3	2	4	2	3	2	4
Magnesia : Carbonate ..	per lb.	0	3½	0	0	0	3½	0	0
Pond, Hwds.	"	29	0	0	0	29	0	0	0
Morphie Murias	per cwt.	46	0	46	6	46	0	46	6
Phosphorus	per lb.	0	5½	0	5½	0	5½	0	5½
Potash :	"	0	10	0	10½	0	10	0	10½
Bichromate	"	1	11	2	0	1	11	2	0
Carbonate	per cwt.	10	6	11	6	10	6	11	6
Potashes, Canada, ..	per cwt.	1	4	1	6	1	4	1	6
1st sort	"	9	0	0	0	9	0	0	0
Pearlashes, Canada, ..	per lb.	5	4	5	6	12	0	0	0
1st sort	"	4	6	0	0	4	3	0	0
Chlorate	"	4	0	0	0	3	9	0	0
Prussiate	"	3	8	3	9	3	6	3	9
red	"	0	8½	0	0	0	8½	0	0
Sulphate	per lb.	40	0	42	0	40	0	42	0
Potassium :	"	16	3	16	6	18	3	16	6
Bromide	per lb.	4	6	0	0	4	3	0	0
Chloride	per cwt.	9	0	0	0	9	0	0	0
Iodide	per lb.	5	4	5	6	12	0	0	0
Quinine :	"	4	6	0	0	4	3	0	0
Sulphate, British, in ..	per oz.	4	0	0	0	3	9	0	0
bottles	"	3	8	3	9	3	6	3	9
Sulphate, French	"	0	8½	0	0	0	8½	0	0
Sulphate, German	per lb.	40	0	42	0	40	0	42	0
Sal Acetos	per cwt.	16	3	16	6	18	3	16	6
Sal Ammoniac, British ..	"	16	3	16	6	18	3	16	6
Saltetre :	"	16	3	16	6	18	3	16	6
Bengal, 6 per cent. or ..	"	16	3	16	6	18	3	16	6
under	"	16	3	16	6	18	3	16	6

Saltetre :—(cont.)

		Last Month		This Month	
		s. d.	s. d.	s. d.	s. d.
Bengal, over 6 per ..	per cwt.	16 0	0 0	16 0	0 0
cent.	"	22 3	23 3	22 3	23 3
British, refined	"	7 9	8 0	7 9	8 0
Soda : Bicarbonate	"	45 0	0 0	45 0	0 0
Hwds.	"	45 0	0 0	45 0	0 0
Carbonate :					
Soda Ash	per deg.	0 1½	0 0	0 1½	0 0
Soda Crystals	per cwt.	3 3	0 0	3 3	0 0
Caustic	"	8 9	9 3	8 9	9 3
Hyposulphite	"	7 9	8 0	7 9	8 0
Nitrate	"	11 3	0 0	11 3	0 0
Zinc Sulphate	"	12 0	14 0	12 0	14 0
SUGAR OF LEAD, White ..	"	30 0	34 0	30 0	34 0
Brown	"	26 6	0 0	26 6	0 0
VERDIGRIS	per lb.	0 9½	1 0	0 9½	1 0
VERMILION, English ..	"	2 3	0 0	2 3	0 0
China	"	2 4	0 0	2 4	0 0
DRUGS.					
ALOE, Hepatic.	per cwt.	75 0	90 0	70 0	85 0
Socotrine	"	145 0	165 0	60 0	150 0
Cape, good	"	42 6	46 0	35 0	40 0
Inferior	"	25 0	35 0	22 6	30 0
Barbados	"	50 0	130 0	50 0	130 0
Curacao	"	40 0	95 0	40 0	95 0
AMBERGRIS, grey	per oz.	60 0	80 0	60 0	80 0
BALSAM—					
Canada	per lb.	1 10	2 0	1 10	2 0
Capiwi	"	1 9	1 10	1 9	1 10
Peru	"	7 6	8 0	7 6	8 0
Tolu	"	1 9	0 0	1 10	2 0
BARKS—					
Canela alba	per cwt.	25 0	27 6	25 0	27 6
Cascarilla	"	40 0	45 0	40 0	45 0
CINCHONA—					
Peru, grey	per lb.	0 9	1 8	0 9	1 8
Calisaya, flat	"	0 6	2 0	0 6	2 0
quill	"	0 9	2 6	0 9	2 6
Carthage	"	0 4	1 0	0 4	1 0
Columbian	"	0 6	1 9	0 6	1 9
Cuprea	"	0 3	1 4	0 3	1 4
New Granada	"	0 7	2 0	0 7	2 0
Pitayo & Maracaibo ..	"	0 4	1 5	0 4	1 5
Red	"	2 0	9 0	2 0	9 0
East India, crown	"	0 6	2 0	0 6	2 0
" red	"	0 4	2 3	0 4	2 3
BUCHU LEAVES	"	0 2	1 0	0 2	1 0
CAMPHOR, China	per cwt.	52 6	55 0	52 6	55 0
Japan	"	53 0	56 0	53 0	56 0
Refin. Eng.	per lb.	0 11½	0 0	0 11	0 0
Tablets	"	0 11½	0 0	0 11	0 0
CANTHARIDES, China ..	"	2 6	3 0	2 6	3 0
Russian	"	6 6	7 0	6 6	7 0
CAMOMILE FLOWERS ..	per cwt.	38 0	40 0	38 0	40 0
CASTOREUM	per lb.	26 0	38 0	26 0	38 0
CHIRETTA	"	0 3½	0 4½	0 3½	0 4½
DRAGON'S BLOOD, Ip. ..	per cwt.	70 0	240 0	70 0	240 0
ERGOT OF RYE	per lb.	0 6½	0 10	0 6½	0 10
FRUITS & SEEDS (see also Seeds and Spices)					
Anise, China Star	per cwt.	95 0	100 0	95 0	100 0
Russian	"	20 0	30 0	20 0	30 0
Beans, Tonquin	per lb.	3 0	5 0	3 0	5 0
Cardamoms, Malabar, ..	"	6 0	8 0	6 0	8 0
good	"	3 0	4 0	3 0	4 0
inferior	"	3 0	4 6	3 0	4 6
Aleppy	"	1 6	3 6	1 6	3 6
Madras	"	2 0	2 10	2 0	2 10
Ceylon	"	4 0	7 0	4 0	7 0
Malabar sorts	"	11 0	13 0	11 0	13 0
Cocculus Indicus	per cwt.	0 10	1 3	0 10	1 3
Colocynth, apple	per lb.	200 0	280 0	200 0	280 0
Cubebs	per cwt.	30 0	34 0	30 0	34 0
Cummin	"	10 0	12 0	10 0	12 0
Fennugreek	"	8 6	11 0	8 6	11 0
Juniper Berries	"	7 6	10 0	7 6	10 0
Nux Vomica	"	8 0	12 0	8 0	12 0
Tamarinds, E. India ..	"	18 0	20 0	18 0	20 0
W. India	"	20 0	25 0	20 0	25 0
Vanilla, large	per lb.	8 0	13 0	8 0	13 0
inferior	"	60 0	90 0	60 0	90 0
FLOWERS—Dalmatian ..	"	95 0	0 0	95 0	0 0
Caucasian	"	25 0	50 0	25 0	50 0
HONEY, Chili	per cwt.	26 0	38 6	26 0	38 6
Jamaica	"	2 6	3 6	2 6	3 6
IPECACUANHA	per lb.	2 0	4 3	2 0	4 3
ISINGLASS, Brazil	"	1 6	4 10	1 6	4 10
Tongue sort	"	1 0	3 11	1 0	3 11
East India	"	2 9	3 10	2 9	3 10
West India	"	7 0	10 0	7 0	10 0
Russ. leaf	"	2 2	2 4	2 2	2 4
Simovia	"	0 7	0 9	0 7	0 9
JALAP, good	"	0 6	0 7	0 6	0 7
infer. and stems	"	0 0	0 0	0 0	0 0
LEMON JUICE	per deg.	1 6	0 0	1 6	0 0
LIME JUICE	per gall.	55 0	100 0	55 0	100 0
LIQUORICE, Spanish ..	per cwt.	12 0	20 0	12 0	20 0
Liquorice Root	per lb.	4 6	5 0	4 6	5 0
MANNA, flaky	per oz.	66 0	73 0	66 0	73 0
MUSK, Tonquin pod ..	"	45 0	80 0	45 0	80 0
Grain	"	29 0	35 0	29 0	35 0
Yunan pod	"	1 3	1 5	1 3	1 5
OILS (see also separate list)					
Almond, expressed ..	per lb.	0 3½	0 3½	0 3½	0 3½
Castor, 1st pale	"	0 3½	0 3½	0 3½	0 3½
second	"	4 6	6 6	4 6	6 6
Cod-liver	per gall.	4 6	6 6	4 6	6 6

		Last Month		This Month				Last Month		This Month	
		s.	d.	s.	d.	s.	d.	s.	d.	s.	d.
Essential Oils:											
Almond	per lb.	30	0	to	0	0	0	24	0	to	0
Anise-seed, star	"	6	6	6	9	6	9	23	10	24	0
" German, &c.	"	8	0	13	0	8	0	23	10	24	0
Bergamot	per bot.	5	6	6	0	5	6	57	0	32	0
Cajeput	per lb.	3	3	0	0	3	3	24	0	26	10
Caraway	"	5	6	0	0	5	6	23	0	27	0
Cassia	"	3	9	0	0	3	9	22	0	22	10
Cinnamon	per oz.	1	9	2	6	1	9	25	0	27	0
Cinnamon-leaf	"	0	23	0	0	0	23	39	0	40	0
Citronelle	"	0	14	0	0	0	14	36	0	37	0
Clove	per lb.	3	3	3	6	3	3	41	0	41	10
Juniper	"	1	6	2	0	1	6	35	10	36	0
Lavender, Exotic	"	6	9	8	6	6	9	39	0	40	0
" Mitcham	"	130	0	0	0	60	0	39	0	0	0
Lemon	"	4	0	5	6	4	0	33	0	33	15
Lemongrass	per oz.	0	14	0	0	0	14	32	0	32	0
Neroli	"	7	0	0	0	7	0	0	0	0	0
Nutmeg	"	0	9	0	11	0	8	34	0	34	10
Orange	per lb.	12	0	0	0	8	0	20	15	21	5
Otto of Roses	per oz.	15	0	34	0	15	0	27	15	0	0
Patchouli	"	1	4	2	0	1	4	26	0	26	0
Peppermint:											
American	per lb.	12	0	0	0	12	0	25	0	26	0
(H. G. Hotchkiss)	"	14	0	0	0	14	0	41	0	43	0
English	"	25	0	28	0	27	6	28	10	45	0
German	"	8	0	14	0	8	0	23	0	23	3
Japan	"	7	0	9	0	7	0	0	61	0	61
Menthol crystals	"	45	0	0	0	33	0	0	74	0	84
Rosmary	"	2	6	3	9	2	6	45	0	60	0
Sassafras	"	2	6	0	0	2	6	0	0	0	0
Spearmint	"	12	0	14	0	12	0	18	0	26	0
Thyme	"	2	6	0	0	2	6	10	0	21	0
Mace, expressed	per oz.	0	2	0	0	0	2	38	0	0	0
OPIMUM, Turkey	per lb.	15	0	17	0	15	0	0	0	0	0
" inferior	"	11	0	13	0	11	0	40	0	0	0
QUASSIA (bitter wood)	per ton	50	0	63	0	50	0	44	3	64	0
RHUBARB, China, good	per lb.	1	6	3	0	1	6	35	0	38	0
and fine	"	1	1	1	3	1	1	10	15	0	15
Middling to fair	"	1	1	1	3	1	1	8	0	12	0
ROOTS—											
Calumba	per cwt.	22	0	30	0	22	0	43	0	0	0
China	"	20	0	0	0	20	0	0	0	0	0
Cus-Cus	"	30	0	21	0	30	0	0	0	21	0
Galangal	"	21	6	0	0	21	6	0	0	0	0
Gentian	"	25	0	27	6	22	6	25	0	0	0
Orris	"	23	0	50	0	23	0	50	0	0	0
Pellitory	"	68	0	80	0	68	0	80	0	0	0
Pink	per lb.	1	6	0	0	1	6	0	0	0	0
Rhatany	"	0	5	0	6	0	5	0	6	0	0
Seneka	"	2	4	2	6	2	4	2	6	0	0
Snake	"	1	6	0	0	1	6	0	0	0	0
SAFFRON, Valencia	"	35	0	40	0	32	0	38	0	0	0
Alicante	"	25	0	30	0	25	0	28	0	0	0
SARSAPARILLA, Lima	"	0	6	1	0	0	6	1	0	0	0
Guayaquil	"	1	2	1	5	1	2	1	5	0	0
Honduras	"	1	0	1	3	1	0	1	3	0	0
Jamaica	"	1	6	1	10	1	6	1	10	0	0
SASSAPARILLA	per cwt.	0	0	0	0	0	0	0	0	0	0
SCAMMONY, Virgin	per lb.	32	0	35	0	32	0	35	0	0	0
second and ordinary	"	15	0	28	0	15	0	28	0	0	0
SENA, Bombay	"	0	24	0	0	0	24	0	0	0	0
Tinnivelly	"	0	3	1	2	0	3	1	2	0	0
Alexandria	"	0	9	1	6	0	9	1	6	0	0
SPEARMINT, refined	"	1	3	0	0	1	3	0	0	0	0
American	"	0	10	0	0	0	10	0	0	0	0
SQUILLS	"	0	1	0	24	0	1	0	24	0	0
GUMS.											
AMMONIAC, drop	per cwt.	2	10	3	6	2	10	3	6	0	0
ANIM, fine washed	"	18	0	20	0	18	0	20	0	0	0
sorts	"	13	0	17	10	13	0	17	10	0	0
ARABIC, pale picked	"	2	15	3	10	2	15	3	10	0	0
sorts, mid. to fine	"	1	10	2	6	1	10	2	6	0	0
TURKEY, pick. gd. to fin.	"	9	0	9	10	9	0	9	10	0	0
second & inferior	"	6	10	8	10	6	10	8	10	0	0
sorts	"	4	5	4	10	4	5	4	10	0	0
ASAFCETIDA, cm. to fin.	"	3	0	3	15	1	5	3	0	0	0
BENJAMIN, Siam, 1st	"	17	0	35	0	15	0	34	0	0	0
& 2nd	"	5	0	11	0	5	0	11	0	0	0
Sumatra	"	5	0	11	0	5	0	11	0	0	0
COPAL, Manila	"	15	0	67	0	15	0	67	0	0	0
Angola, red.	"	145	0	152	6	145	0	152	6	0	0
DAMAR, pale	"	77	6	90	0	77	6	90	0	0	0
EUPHORBUM	"	12	6	20	0	12	6	20	0	0	0
GALBANUM	per lb.	0	3	0	10	0	3	0	10	0	0
GAMBOGE, picked pipe	per cwt.	230	0	300	0	230	0	300	0	0	0
GUAIACUM	per lb.	0	9	2	5	0	9	2	5	0	0
KINO	per cwt.	45	0	0	0	45	0	0	0	0	0
KOWRIE, sorts	"	45	0	60	0	45	0	60	0	0	0
selected	"	115	0	260	0	115	0	260	0	0	0
MASTIC, picked	per lb.	1	6	3	3	1	6	3	3	0	0
MYRRH, good and fine	per cwt.	100	0	150	0	100	0	150	0	0	0
ordinary to fair	"	80	0	140	0	80	0	140	0	0	0
OLIBANUM, p. drop	"	34	0	39	0	34	0	39	0	0	0
amber and yellow	"	36	0	0	0	36	0	0	0	0	0
SENEGAL	"	40	0	45	0	40	0	45	0	0	0
SANDARAC	"	90	0	110	0	90	0	110	0	0	0
SHELLAC, Orange	"	62	0	89	0	63	0	82	0	0	0
LIVER	"	61	0	64	0	61	0	64	0	0	0
THUS	"	25	0	0	0	25	0	0	0	0	0
TRAGACANTH, leaf	"	140	0	200	0	140	0	200	0	0	0
in sorts	"	20	0	180	0	20	0	180	0	0	0
OILS.											
SEAL pale	per tun	27	10	28	10	27	10	23	10	0	0
Oils:—(cont.)											
SEAL, yellow to tinged	per tun	24	0	to	0	24	0	to	0	27	0
brown	"	23	10	24	0	23	10	24	0	24	0
SPERM	"	57	0	0	0	57	0	0	0	0	0
COD	"	32	0	35	0	32	0	35	0	0	0
WHALE, South Sea, pale	"	24	0	26	10	24	0	26	10	28	10
yellow	"	23	0	27	0	23	0	27	0	27	0
brown	"	22	0	22	10	22	0	22	10	22	10
Sardine	"	25	0	27	0	25	0	27	0	27	0
OLIVE, Seville	per ton	39	0	40	0	39	0	40	0	40	0
Gioja	"	36	0	37	0	36	0	37	0	37	0
Levant	"	41	0	41	10	41	0	41	10	41	10
Mogador	"	35	10	36	0	35	10	36	0	36	0
Spanish	"	39	0	40	0	39	0	40	0	40	0
Sicily	"	39	0	0	0	39	0	0	0	39	0
COCOA-NUT, Cochiti	"	33	0	33	15	33	0	33	15	33	15
Ceylon	"	32	0	32	5	32	0	32	5	32	5
Mauritius	"	0	0	0	0	0	0	0	0	0	0
PALM, fine	"	34	0	34	10	34	0	34	10	34	10
LINSEED	"	20	15	21	5	20	15	21	5	20	15
RAPSEED, English, pale	"	27	15	0	0	27	15	0	0	27	15
brown	"	26	0	0	0	26	0	0	0	26	0
COTTONSEED	"	25	0	26	0	25	0	26	0	25	0
LARD	"	41	0	43	0	41	0	43	0	43	0
TALLOW	"	28	10	45	0	28	10	45	0	28	10
TURPENTINE, American	per cwt.	23	0	23	3	23	0	23	3	23	3
PETROLEUM, refined	per gall.	0	6	8	0	0	6	8	0	0	6
Spirit	"	0	7	0	8	0	7	0	8	0	7
SEEDS.											
CANARY	per qr.	45	0	60	0	45	0	60	0	45	0
CARAWAY, English	per cwt.	0	0	0	0	0	0	0	0	0	0
German, &c.	"	18	0	26	0	18	0	26	0	18	0
CORIANDE	"	10	0	21	0	10	0	21	0	10	0
HEMP	per qr.	38	0	0	0	38	0	0	0	38	0
LINSEED, English	"	0	0	0	0	0	0	0	0	0	0
Black Sea & Azof	"	40									



215/37. *James Ironside* desires to be informed the best way of **Keeping Lemons**, so as to preserve their freshness, size, and flavour. Wrap each lemon in a piece of tissue-paper, and pack in ordinary, *not absorbent*, cotton wool, dusted with powdered boric acid. Use plenty of wool, cover the box lightly, and examine occasionally, as it is the nature of lemons to over-ripen.

212/70. *F. W. D.*—**Violet Colour for Show-bottles.**—The formula is incorrectly stated in *Diary*; 10 minims of liq. ferri perchlor. fort. must be added to the solution of salicylic acid to produce the colour.

239/12. *Wills.*—**Boot-blackening.**—The acidity of the blacking is not hurtful to the boots, because the leather is so thoroughly impregnated with oil as to prevent action of acid. You would observe from the directions that the sulphuric acid enters into combination.

Pro Bono Publico.—The following are good:—

Mist. Taraxaci c. Podophyll.—

Podophyll. resin.	..	..	..	..	gr. vi.
Spt. ammon. arom.	..	..	..	..	5vj.

Dissolve and add—

Succus taraxaci	..	..	..	..	3iss.
Dec. aloes eo. ad	..	..	..	..	3vj.

M.

3ss. for a dose.

Camphorated Hungary Water—Dissolve 3iss. spt. camphoræ B.P. in a pint of rose-water. This correspondent wishes formula for “ung. metallorum”, and “ess. horehound conc.” Can any of our readers oblige?

208/56. *Jumbo.*—We reprint the formula for **Liquor Cocci** at your request:—

Boil for 20 minutes, in a porcelain dish, 1 oz. of cochineal (in coarse powder), and 1 oz. of carbonate of potash, with 7 oz. of water, then add gradually a mixture of 1 oz. of potash alum and 1 oz. cream of tartar. When effervescence has ceased, filter, washing the residue with proof spirit to 8 oz. In the filtrate dissolve 6 oz. of sugar and 4 drachms of common salt, and make up to 16 oz. with water.

A correspondent informs us that he got a splendid product from this formula, which kept very well indeed.

Glass-cement.—Soak 1 oz. of isinglass in 12 drachms of glacial acetic acid by the aid of the water-bath.

Jumbo's tooth-paste, by the following formula, is apt to ferment, and he wishes to know how he may prevent it becoming bad:—

Powdered orris ..	..	..	..	..	3 ounces
“ a'mu ..	..	..	..	..	½ ”
Rose pink ..	..	..	..	..	1 ”
Prepared chalk ..	..	..	..	..	1½ ”
Powdered cochineal ..	..	..	..	..	3 drachms
Cream of tartar ..	..	..	..	..	2 ”
Lavender water ..	..	..	..	..	3 ounces
Oil of cloves ..	..	..	..	..	½ drachm
Otto of rose ..	..	..	..	..	5 drops
Honey ..	..	..	..	..	8 ounces

Substitute glycerine for honey, and the product will be equally good as to sweetness, and will not ferment. Two drachms of salicylic acid with the honey will delay fermentation. The cream of tartar should be allowed to act on the chalk before adding the other ingredients.

215/9. **Liq. Copaib. c. Cub. c. Buchu.**—*J. W. & Son* (Sunderland) kindly furnish the following formula:—

Cubebæ ..	..	..	..	..	..	Oz. 4
Sp. vini rect.	..	..	..	..	..	16
Macerate six days, filter, and add						
Liq. potassæ ..	..	..	..	..	..	4
Filter again, and add						
Liq. copaibæ (soluble) ..	..	..	..	..	..	16
Inf. buchu conc. (1 in 3) ..	..	..	..	..	..	16

Let it stand three days, then decant.

Ballade of Ye Chemiste.

(From an old MS. in the possession of C. C. B.—, of E.—.)

His *Face* is sowed by manie au ill,
His *Haire* is prematurely gray,
His *Pulse* is lowe, his *Bloude* is chill,
And when hee goes hee stoopeth aye;
For why? from *Phœbus'* earliest ray,
Till *Midnight* doth ye *Cie* still,
Ye whole yeare long hee pounds away,
Hee pounds away at *Pule*, and *Pil*.

To toyle and slave is all his *Skill*,
He hath nor *Tyme* nor wit to play;
Betwixt his *Parloure* and his *Till*
He boits his *Victualle* as hee may;
He scarce affordeth *Tyme* to pray;
Tho' *Soule* and *Bodie* both hee kill,
No *Ghostlie* feares can hym affraye;*
Hee pounds away at *Pule*, and *Pil*.

With *sense* benumb'd, and weaken'd will,
To drear *Despondence* easie *pr ye*,
Like wretched *Horse* in cursed *Mill*,†
Hee plods along from *Date* to *Daire*.
Hee knoweth not ye world is gay,
His *Heart* is dead, his *Life* is nil,
There's really nought but this to say—
Hee pounds away at *Pule*, and *Pil*.

L'ENVOIE.

And wben in *Earthe* his *Corpse* they lay,
And deem of *Peace* he takes his fill,
Even then, if *Heaven* hath ought to braye,‡
Hee pounds away at *Pule*, and *Pil*.¶

* To affray, to affright. See Morris, *passim*.—C. C. B.

† Readers of Dickens will suspect that *Mr. Mantalini* had had access to this MS.—C. C. B.

‡ To bray, to powder. Still used in the provinces.—C. C. B.

¶ Hence, perhaps, Gray's line: “Even in our ashes live their wonted fires.”—C. C. B.

* * * “C. C. B.” might search his manuscripts for some more records as clever as the above.

213/72. *A West-end Apprentice* asks us:—“What is the meaning of ‘glaciale’ attached to the name of an extract, as ext. aloes *glaciale*; and how would such an extract be prepared?” His suggestion that the term indicates an icy condition is, we think, correct. Before the publication of the B. P. two extracts were in use—a soft (the more common), and a hard; both were prepared with the aid of heat. The word “glaciale” (or ice-like) fairly indicates the brittle condition of the hard extract, although it is somewhat far-fetched.

J. H. K. (72/218) and *Justice* (13/219).—These correspondents ask us whether they are infringing anyone's rights in using certain titles for proprietary medicines. In the cases suggested the titles do not seem to us at all close infringements of certain other well-known titles which we suppose have suggested them. We cannot, of course, guarantee that the owners of the latter will not bring any actions, but we should certainly be rather surprised if they gained such actions. This, however, is only an individual opinion, of no legal value whatever. These correspondents are advised to read our articles in January, February, and March of this year, treating fully of this subject. They will probably gather therefrom no certainty except the certainty of uncertainty; but they will at least appreciate how impossible it is for anyone to give them an opinion which can be of any real use. “Justice's” label taken alone does not seem to us to render his product liable to medicine-stamp duty, but for assurance he had better submit that to the Board of Inland Revenue, Somerset House.

220/7. *A. R.*—**Ammonia Liniment.**—In the discussion on sesame oil at the Pharmaceutical Conference, in 1883, and in Mr. Conroy's paper, it was stated that sesame oil seemed to give a thinner ammonia liniment than olive oil. You say you find it thicker than ever. Have you genuine samples of the sesame and olive oils? The latter is much adulterated with the former. The new United States Pharmacopœia orders the use of cottonseed oil. A correspondent of this Journal in 1882 suggested the addition of 4 drachms of glycerine to each lb. of liniment, stating that the mixture remains permanently fluid. Another recommended the use of lime-water in place of distilled water to dilute the liq. ammoniæ, then adding nut oil a little at a time, shaking well. The product is said to be a beautiful cream-like mixture that does not thicken.

Legal Queries.

25/218. *W. S. H.* asks:—"Would a clause in the indenture of an apprentice, prohibiting said apprentice from carrying on business in same town as his master after the completion of his term of apprenticeship, be legally binding?"

A minor cannot effectually bind himself by any agreement which is disadvantageous to himself; for, on attaining the age of twenty-one years, he may elect to repudiate such agreement as he may have entered into during his minority. But the object may be attained in another way. The parent or guardian who is a party to the indenture may enter into a covenant to the effect suggested, and a certain sum may be covenanted to be paid by him as liquidated damages if the apprentice should carry on business within a certain specified distance from the shop of his master, contrary to the covenant.

15/219. *Isabel.*—Females are just as eligible to pass the Pharmaceutical examinations and to become registered as pharmaceutical chemists or chemists and druggists as males. They have been refused membership of the Pharmaceutical Society, but that does not in the least affect their legal status.

28/214. *Fair Trade* asks whether an unqualified trader can open a store and term it "Pharmaceutical Stores," and also whether an A.P.S. might use such a title. The law is that no one except a pharmaceutical chemist shall use, assume, or exhibit any name, title, or sign implying that he is such a person. The question to be decided is whether the use of the term "Pharmaceutical Stores" implies that the owner is a pharmaceutical chemist. It is impossible to say how a Court might decide in such a case.

15/218. *X. J. Z.* writes:—"Will you oblige me with your advice as to what to do in such a case as the following:—"

Dr. Brown, of our town, is in the habit of prescribing secret remedies of his own. These are obtainable only at his chemist's (Smith).

Customers of mine do not care to go to Smith, and if I send the prescription to Smith for them he will not dispense it unless he can supply it direct to the patient.

As there are Browns and Smiths in most towns, your answer will interest other people besides myself.

[Obviously, there is no legal objection to such a course; but the doctor and chemist who work on such a compact are not likely to benefit themselves ultimately by their tactics. Apparently the best thing to do is to let the performance work itself out. If an occasional discreet word, explaining the "plant," can be thrown in, it may help the consummation.]

30/217. *Durham.*—We think the label is rendered liable in consequence of the sentence beginning "for nervous debility," otherwise we believe it would pass. But, to be sure, you had better submit it to the Board of Inland Revenue, at Somerset House.

56/216. *Ferri Pyrophos.*—You omit to give us just the essential fact. Is the society you name an incorporated company? If so, according to the legal interpretation of the Pharmacy Act, it would have a right to keep open shop for the sale of poisons, &c. It would still be necessary, however, that the seventeenth section of the Act (in regard to labelling, &c.) should be obeyed. If the society is simply a co-operative society, it would not be entitled to keep open shop for the sale of poisons; but then would arise the question whether genuine co-operation is "keeping open shop." This question has never been tackled. Legal opinion, however, we believe, has been obtained to the effect that a *bond-fide* co-operative society, selling exclusively to its own circle of co-operators, would not be under the control of the Pharmacy Act.

37/216. *Country Subscriber.*—If your title is a sufficiently distinctive any word you can register it as a trade-mark at the office for the registration of trade-marks, Southampton Buildings, Chancery Lane. The fee is 2*l.*, and there are some extras for advertising, &c. If opposition should be entered the expense might be much greater.

40/216. *J. H.*—We should say decidedly that the wording of the label would render the cough lozenge liable to the medicine-stamp duty. If so, they could only be sold by licensed patent-medicine dealers.

69/216. *A. W.*—It has been legally decided by the highest courts that the restrictive clauses of the Pharmacy Act do not apply to incorporated companies. It is doubtful whether they apply to co-operative societies. Lastly, some of these trading companies are owned by duly-qualified registered men. In that case they are, of course, legal.

Cutting Patent Medicines.

To the Chemist and Druggist.—

SIR,—I have been waiting a long time for some of our leaders to propose a practical plan by which the underselling of patents by outside traders would be put an end to, or deprived of its evil to us. But as the interests of the trading chemist and druggist are always ignored at head-quarters, it is time some of the rank and file tried their 'prentice hands. To be as brief as possible, I put my suggestion thus:—

1. That nine-tenths of these patents are either originated or worked by chemists.

2. That the *raison d'être* of the cutting is the large difference between the wholesale and the published retail price.

3. That this large difference is a relic of bygone days, and is detrimental both to the original maker and to the retailer.

Which, if true, it follows that the remedy is in our own hands, and I suggest as that remedy that every chemist who prepares a patent should advance the wholesale price, so as to allow only a legitimate profit to the retailer, say, 12½ per cent. So that, if the retail price remains 13½*d.*, the wholesale price would be 11*s.* 10*d.* per dozen, resulting in the originator obtaining extra profit for advertising and thus increasing his sale; while the retailer (getting, it is true, a smaller profit on each article) would be relieved from the unfair competition now existing, and would thus increase his sale; and, not the least important point, this would remove the fulcrum that is being used so successfully to divert other branches of trade from us. I am, sir, yours faithfully,

"ONE WHO HAS STOOD IN THE RANKS FOR TWENTY-THREE YEARS."

48/216. *Emplastum.—Arnica Plaster.*—The United States Pharmacopoeia gives this formula:—

	Parts
Extract of arnica root.	50
Resin plaster	100

Add the extract to the plaster, previously melted by means of a water-bath.

71/218. *Assistant (Demerara).*—We obtain the following formulæ from Kilner's "Compendium of Modern Pharmacy":—**Florida Water.**—Oil lavender, 4 oz.; oil bergamot, 4 oz.; oil neroli, 2 drachms; oil orange, 4 drachms; oil cloves, 1 drachm; pure musk, 4 grains; Cologne spirits, ½ gallon; water, ½ gallon. Macerate for a week and filter through magnesia. **Bay Rum.**—Oil of bay, 1 drachm; oil nutmegs, 5 drops; oil orange, ½ drachm. Dissolve in alcohol, 2 pints. Add Jamaica rum, 4 oz., water to make 4 pints. Let stand two or three weeks, and filter through magnesia and charcoal (?).

217/8. *C. W.*—**Gingerette or Ginger Syrup** is made as follows, according to Skuse's "Confectioner's Handbook":—"Boil 3½ lbs. of sugar with a pinch of cream of tartar in 1 quart of water for one minute, then add 2 oz. of the soluble essence of ginger and ½ oz. tartaric acid."

218/18. *Alpha, Ifracombe.*—**For Removing Moles** Dr. Benjamin Godfrey, in "Diseases of the Hair," gives the following, which was quoted on page 345 of our volume for 1879:—"Local maternal marks or moles can be easily removed by applying the acid nitrate of mercury, and letting it remain upon the diseased patch till it dies. My plan is to take a fine-pointed glass tube, and, having dipped it in the caustic solution, to dot all round the hirsute mass upon the healthy skin where they both join; then to dot points through the mass, like the white squares upon a chess-board, leaving the blank ones to be treated in a similar manner a fortnight hence. By such a method you prevent too great an inflammatory action setting in, and make a less scar in the future."

218/17. *A. J. L.*—You might begin with "Physics" in Macmillan's series of Science Primers, and go on with Stewart's "Lessons in Elementary Physics."

When a prescription contains water, glycerine, and quinine, the quinine may be triturated with the glycerine, adding the water by degrees.

217/34. *T. P. J.*—Blaine's "Outlines of the Veterinary Art" has been a popular book, and we believe a new edition has been published recently.

218/65. *Assistant.*—The article on the manufacture of toilet soaps appeared in our February number of this year, page 82. Piesse's "Art of Perfumery," published by Longmans & Co., is a very useful work, to be obtained through any bookseller.

19/216. *C. J.*—**Caoutchouc Oil** used in Germany to apply on metals to prevent rust. We have ascertained that Messrs. Thos. Christy & Co., of 155 Fenchurch Street, can supply this.

The Stores Question.

To the Chemist and Druggist—

Sir,—Will you be good enough to allow me to take up a little of your space for the purpose of expressing my views as to the attitude which shopkeepers in general, and chemists in particular, should adopt towards the "Stores." The subject is one that excites a good deal of interest and argument, but, while the interest is widely spread, the argument seems to be very one-sided.

It appears to me that the "Stores" had their origin in the perfectly natural desire of people with limited incomes to make their money go as far as possible, and had they not effected considerable saving by co-operating their scheme would soon have fallen through. As a matter of fact, in the West-end of London and elsewhere, the shopkeepers obtained very large profits, too large, I venture to say, in the majority of cases where the goods were sold in the same or nearly the same condition as when the vendor obtained them. This the general public soon found out, and they denounced the shopkeepers in emphatic terms, most unfortunately including us chemists in the denunciation without considering that in our, and some other cases, charge was being made for skilled services in addition to a fair profit on comparatively valueless material. As long as the public contented themselves with denouncing the shopkeepers, the latter paid little attention to the shadow that preceded the coming event, and the result was that a portion of the public adopted their present attitude towards retail trade, and instituted these "Stores" which have done us so much harm. That the "Stores" have extended and flourished is proof positive that they were needed by a large and influential section of the community, and if the only possible remedy is to be expressed in one short sentence, it is, "Let us act so that the 'Stores' shall not be needed." To talk of abolishing the "Stores" by Act of Parliament is a waste of time which could only be perpetrated by men who momentarily forget that the scene is Britain, and the time the nineteenth century. They might as well talk of Mr. Whitely being "abolished" at the instance of his neighbours, or the Metropolitan Railway Company being suppressed at the solicitation of a cab-owners' society. It is quite possible that a well-organised legitimate (?!) trading association might succeed in badgering a few Parliamentary candidates into promising that they would use their endeavours to suppress the "Stores"; but, returned as members, they would in almost every case feel heartily ashamed of themselves were they ever detected voting in favour of so arbitrary a measure as the proposed abolition. And what would the generality of sensible men think of a Parliament did they ever learn that it had deprived one section of the community of its rights at the instigation of the Legitimate Trading Association or any other section of the community? But such a thing will never happen. If, then, Messrs. Hambridge, "Instanet," "Not a Scalper," and others wish to "set rolling a ball wherewith to knock the 'Stores' over," they must put aside all such extravagant ideas as those recently expressed by your correspondents, and enter into a proper and manly competition with their vexatious enemy and rival. Let them seek to gain their end by bringing a larger amount of care and intelligence to bear upon their duties than is possible in a crowded store where work is carried on at high pressure. Let them be more courteous and obliging to their clients, and supply them with excellent articles at a price which, if not so low as that charged at the "Stores," is, at any rate, low enough, together with other advantages, to keep the public away from the enemy. I cannot pretend to state what scale of charges should be adopted, for that should vary according to circumstance, and every chemist should judge for himself, and come to some understanding on the point with his neighbouring *confrères* if possible. This or some similar mode of procedure may be attended with success in the long run; but abusing the directors, shareholders, and others connected with the "Stores," or attempting to deprive those members of society of their indisputable right to continue in their present course, must do retail traders more harm than good, and has certainly damaged their reputation for

COMMON SENSE.

The Stores and their Leavings.

Stand Fast presents his compliments to Mr. Day, and is very much obliged to him for his kind and polite letter. He regrets, however, that in matters of this kind he cannot hold any communication with an unqualified person, and leaves it to Mr. Day to explain how it is that his name is not to be found on the Register of Chemists and Druggists.

45/216. *Ajix*.—The degree of Ph.D. is granted at all the German universities, but it cannot now be obtained at any of them except after a residence of several years and an examination. Further particulars will be found in THE CHEMIST AND DRUGGIST, September, 1820.

214/42. *J. W.*.—There seems to be no authorised formula for syrup of camphor. The *e* is none in either of the European Pharmacopœias, nor in recent works of reference. The formulæ for Ruspini's preparations are kept strictly secret. The tincture of gallic acid and other preparations are not infrequently prescribed, so your experience is not exceptional.

14,219. **White Oils**, referring to the formula in DIARY, 1883, for "white oils," which we have recommended as an "excellent stock liniment," calls attention to the fact that it contains both ammonium and acetic acid, and he "cannot for a moment imagine that sol. ammon. acet. was intended to form part of the formula." Will we not withdraw one of those ingredients? No, sir; we decline to withdraw either. We have said before that the formula is not a scientific one, but, like many such, it seems to answer the purpose. We cannot explain how it is, but whenever science comes to be applied to some of these formula it spoils them, and this is the case in this instance. If our correspondent will only try a mixture made as he suggests, he will find that he will neither make such a presentable liniment nor one that will answer the purpose half so well.

37/217. *J. R.* writes:—"I will feel obliged if anyone will inform me through the columns of your paper where I can procure a good work giving information as to the many drugs and chemicals in ordinary use in a chemist's shop, but not mentioned in either Squire or B.P."

We do not wish to trouble our readers with such a simple question as this. All the usual works on materia medica give more or less information concerning drugs and chemicals not contained in the Pharmacopœia. If "J. R." would give us examples of the kind of drugs respecting which he wants information, we shall be happy to answer him more definitely. Mr. Lescher's "Recent Materia Medica" or Mr. Martindale's "Extra Pharmacopœia" would probably be the sort of book he requires.

15/205. *Simon* wants a small work on the art of wrapping bottles, &c suitable for chemists. If this cannot be learned without a book it will never be learned with one.

G.—Borax Market.—"Be good enough to let us know to what extent the boracic deposits are in a monopoly. We are aware that tinal is held back by a combination in Mining Lane, but we should like to ascertain whether boracite and calcium borate are outside of this combination, or to what extent they are controlled." The advice we have to give is that, if a living can be made by anything else than borax, the latter had much better be avoided. The combination is very powerful, and would not be over-scrupulous about the feelings or fortune of anyone who ventured to oppose it. It extends to all sorts of borax products, and even influences the retail makers. Anyone who meant to fight it must be prepared for an enormous sacrifice of capital.

A Correction.

SIR,—Our principals, Messrs. Dr. J. G. B. Siegert & Sons, of Port of Spain, Trinidad, write us that in your issue of September 15 last, under the title "Trade-marks in America," appears a statement concerning Dr. Siegert's Angostura bitters which is altogether incorrect.

We beg to request, therefore, that you will correct the statement in question, as Dr. Siegert *did* live in Angostura, and there manufactured Angostura bitters for a number of years, afterwards taking his eldest son into partnership. The manufacture was continued at Angostura (then called Ciudad Bolívar), the firm being styled "Dr. J. G. B. Siegert & Son." On the death of Dr. Siegert, Mr. C. D. Siegert took his two brothers into partnership, and the firm was called "Dr. J. G. B. Siegert & Sons," and the factory was shortly after removed to Trinidad, which was the nearest British colony, owing to the exactions of the Venezuelan Government on seeing the success of their industry.

We remain, sir, yours faithfully,

KÜHNER, HENDSCHEL & Co.

145 Cannon Street, London, E.C., November 11.

25, 216. **Brilliantine.**—*J. B. S.* wants a reliable formula for this—one in which both strata of fluid are clear after separation. Two formulae will be found in the *Diary*, 1884, page 136, and besides these we have at different times published the following (from *Dussauce*):—Pure veal grease, 3½ oz.; spermaceti, 3½ oz.; white wax, 1 oz.; almond oil, 3½ oz. Melt in a water-bath and heat as for cold cream. Mix in 2 oz. castor oil, and then incorporate 2 oz. of a strong mucilage of tragacanth made with rose-water. Perfume.

A non-greasy brilliantine is made by mixing 1 part each glycerine and eau de Cologne with 2 parts honey and 4 parts spirit of wine.

We published the following good formula last December :—

Ol. ricini opt.	..	..	..	..	..	..	živ.
S. v r. (63 over proof)	..	..	..	..	..	..	Živj.
Ol. neroli ..	..	..	..	..	..	..	gtt. vj.
Ol. ros. geran.	..	..	..	..	..	..	gtt. x.
Ol. limonis	..	..	..	..	..	..	gtt. vj.
Tr. croci to colour.							

24/216. *R. M.*—We asked last month for some information about Dr. B. W. Haire's "Asthma Cure" for another correspondent. No response has yet reached us.

50/209. *Fairplay*.—The Otley case would deserve your comments, and more too; but there would seem to be some doubt as to the "carelessness or incompetency" of the analyst. He has published in the *Analyst* his statement of the case. He asserts that he had not been informed that his certificate was in dispute; and he further declares that the Inspector did not properly divide the samples of aerated water, but bought three bottles and that he (the public analyst) tested one, Mr. Rimmington another, and Somerset House the third. He adds: "Seeing that a re-examination of the remaining portions of my samples has proved the substantial accuracy of my certificates, it is clear that there was no accidental mistake or transposition, and, as the estimation of lead in water is too simple a matter for an error of chemistry to occur, I presume that the amounts of lead found by Mr. Rimmington, the Somerset House chemists, and myself really represented the proportions of metal present in the various bottles examined by us." As we suppose the circumstances of the affair are receiving official attention it would seem to be hardly proper that we should publish letters on the subject.

To the Chemist and Druggist—

Mending a Mortar—Another Experience.

SIR,—Some years since, having a Wedgwood mortar broken in halves, I rubbed some calomel down with strong mucilage and used this cement for my mortar, taking care to get the edges as close as possible together by means of a string around mortar just above rim at base.

Mortar was put aside for some months. So thoroughly did this answer that we used the mortar indiscriminately for some year or two, and the last I heard of it was to the effect that it was as good as ever.

It will be seen that one great advantage, beyond its endurance, is that of cement being in colour like unto article mended, more especially if very white gum arabic is used.

Beckeuham.

Yours truly,

HENRY J. DEACON.

M. P. S.—Most **Metal Polishes** (for iron and steel goods) are finely powdered emery, made into a paste with lard. A little bole can be added if a redder colour is required. For **Brass Polish**, rotten-stone, made into a paste with soft soap or sweet oil, sometimes with about 20 per cent. of oxalic acid, is the usual application.

72/125. *Apprentice* will find in the CHEMISTS' AND DRUGGISTS' Diary, 1884, a formula for a foamy tooth-wash (page 137), and several for cough-mixtures have been published by us lately. But we do not know how near any of these come to Floriline or Congreve's Balsam.



RECEIVING ORDERS.

BREMNER, GEORGE WILLIAM, Bengall Works, Plough Bridge, Rotherhithe, chemical manufacturer and marine surveyor. October 9. Examination November 19, at 11, at 34 Lincoln's Inn Fields. Solicitor—H. W. Cattlin, 26 Wormwood Street. High Court of Justice.

LENGLET, GUSTAVE, 27 Newthorpe Street, Nottingham, druggists' sundryman and commission agent. October 15. Examination November 18. Court—Nottingham.

ADJUDICATION.

DODD, MATTHEW, Brampton, chemist, druggist, and grocer. October 28 Court—Carlisle.

PARTNERSHIPS DISSOLVED.

SANKEY BROTHERS, Millbrook Road, Edmonton, mineral-water manufacturers. October 22. (John Samuel Sankey and Thomas James Sankey.) Debts by John Samuel Sankey.

SLATER & WHITWORTH, Harcourt Street, off Grace Street, Leeds, aerated-water manufacturers. October 2. (Harry Slater and Benjamin Whitworth.)

DIVIDENDS.

BIRKS, EDWARD, & TURNER, otherwise LEADBEATER, EDWARD, trading as Birks & Turner, Carlisle Street, Edgeley, Stockport, mineral-water manufacturers. Div. of 5s. 11½d., on October 30 and any subsequent day, at 23 King Edward Street, Macclesfield.

FURNISS, JAMES, trading as Furniss & Co., Talbot Street, Sheffield, wholesale druggist, spice and tea merchant. Second and final div. of 3d., on and after October 30, by trustee—C. Corbridge, at offices of Camm & Corbridge, accountants, 17 Bank Street, Sheffield.

ADJUDICATION ANNULLED.

PARKIN, THOMAS, High Town, Hereford, chemist. (Adj. June 7.)

COMPANY WOUND UP.

PATENT MEDICINE PROPRIETARY (LIMITED). Official liquidator—Edward Llewellyn Ernest. By order.

BANKRUPTCIES AND LIQUIDATIONS.

GEORGE TREBLE, Shop-fitter, Hoxton.

THE debtor had applied for a receiving order in bankruptcy on October 8, and an informal meeting of creditors was held on October 27 to consider an offer of a composition of 10s. in the pound. The following statement of affairs was submitted:—

Liabilities.		Assets.	
Creditors—		Stock in trade at Whitmore	
Unsecured ..	£1,234 5 6	Road ..	£300 0 0
Fully secured £225		Book debts, good ..	335 0 0
Estimated value		" bad ..	£127 0
of security 600		" doubtful 44 6	
Surplus to		Estimated to produce ..	2 5 0
contra ..	375	Household furniture, Do	
Partly		Beauvoir Road ..	75 0 0
secured ..	2,050	Other property—	
Estimated		Plant and machi-	
value of		inery ..	£105 0
security ..	1,500	Two horses and van	70 0
	550 0 0	Building Soc. shares	40 10
		" ..	15 13
		Surplus from security	231 3 0
			375 0 0
		Total assets ..	1,318 8 0
		Deduct preferential creditors	140 12 10
		Net assets, estimated at	
		value to debtor ..	1,177 15 2
		Deficiency ..	606 10 4
	1,784 5 6		1,784 5 6
Preferential			
creditors £140 12 10			

It was explained that the debtor had applied for the receiving order to protect the estate under the advice of Messrs. S. Maw, Son & Thompson, who had done business with his father and himself for many years. The fully-secured debt was to the London Joint-Stock Bank for 200l. advanced and 25l. overdraft. The security was the lease of five houses in Crondall Road, with a profit rental of 80l. a year, twenty years to run.

Messrs. Maw, Son & Thompson had advanced to the debtor 2,050l. on security of the lease of the workshops and cottages at Whitmore Road. The lease had thirty-one years to run, and the rent was 180l., against which there was a profit rental of 37s. a week for the cottages, the landlord paying rates and doing all repairs. The rack rents for the workshops was thus 100l. The value of the lease at auction would probably be no more than 1,000l.

The debtor attributed his position to dulness of trade and bad debts to the amount of 300l. He had in now good orders from Piccadilly, Melbourne, and Aberdeen.

Mr. Rolfe, as largest creditor, was voted to the chair. During a long discussion it was suggested that the stock-in-trade had been valued very low. It had cost 750l., and was put down at 300l. Furniture and other items were also considered to be rated low. Propositions were made that the composition should be fixed at 15s. or 12s. 6d., but the debtor declared that he could not undertake to pay more than 10s. A higher rate would cripple the business for want of capital. It was finally resolved that a composition of 10s. in the pound should be accepted on approved personal security, and to be paid within a reasonable time; the security to be submitted to the creditors at the first official meeting on November 13.

At the official meeting the figures in the statement of affairs were slightly modified, as was also the resolution. The creditors unanimously resolved to accept a composition of 10s. in the pound, payable 2s. 6d. in cash, on the approval of the resolution by the Court, and in three instalments of 2s. 6d. at intervals of three months, security to be provided to the satisfaction of Mr. Joseph Rolfe, the largest unsecured creditor before the meeting, for the confirmation of this resolution. The public examination of the debtor will take place on the 18th inst.

ANALYTICAL LABORATORIES IN RUSSIA.—The Medical Department of the Russian Home Ministry intends erecting and fitting out laboratories for food analysis, &c., in all the more important towns in the empire.—*Chemiker Zeitung*, October 9, 1884.

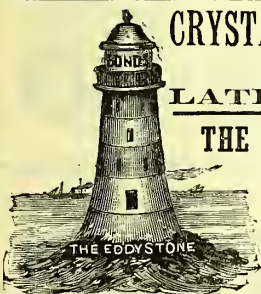
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In Patent Novelty Non-Spilling BOXES (Patented March 4, 1884).

Two or more persons can use the same Box with the greatest propriety. **PRICES: 1s. and 2s. 6d. per Box.**

Inventors and Manufacturers: Messrs. **ESKELL**, Surgeon Dentists, 445 Strand and 58 Ludgate Hill, LONDON.

OF ALL WHOLESALE HOUSES. EXPORT ORDERS RECEIVE IMMEDIATE ATTENTION.

Hunyadi János

**"THE RICHEST
NATURAL
APERIENT WATER."**

Baron Liebig in "Lancet."

**"Certain and pain-
less, soft and mild."**

Prof. Von GARTNER,
Stuttgart.

**"OF GREAT
USE IN HABITUAL
CONSTIPATION."**

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As a Laxative and against Obstinate Constipation. "Has remarkable success in all diseases for which aperient waters are used."

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Against Hemorrhoids and Portal and Hepatic Congestions. "Prompt, certain, and without inconvenience."

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In Bilious Attacks and Sick Headaches. "Favours the secretion and excretion of bile, and removes congestive and inflammatory conditions of the liver."

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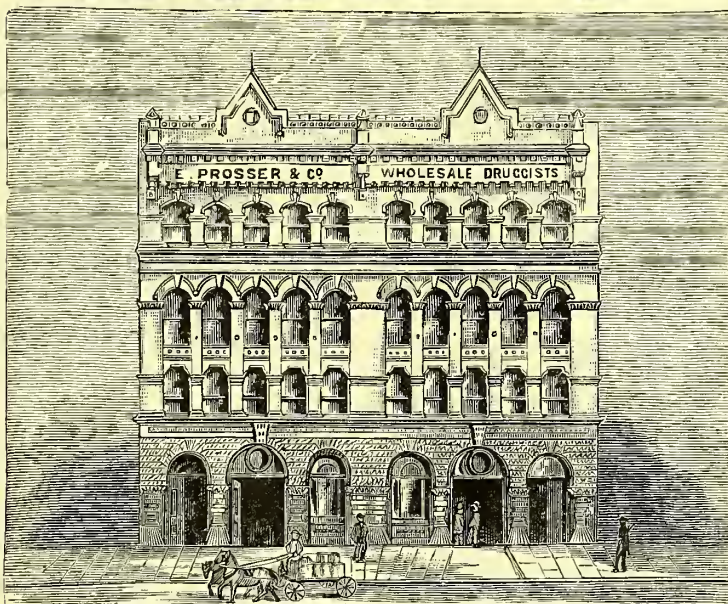
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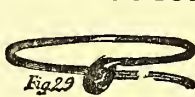
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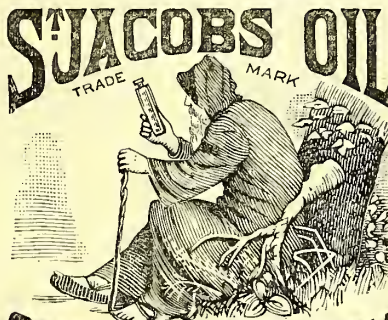
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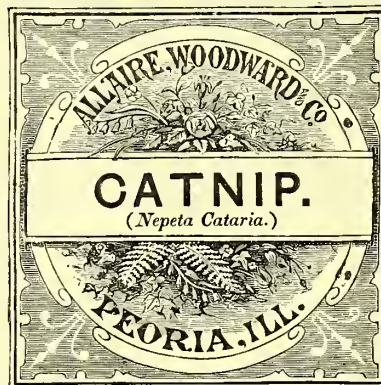
COMMON NAMES.
White Hoarhound, Præssum.
Weisserer Andorn.
Marrube Blane.



PROPERTIES.

Stimulant, tonic, expectorant, and diuretic. Useful in colds, asthma, and all pulmonary affections. Infusion, 1 oz. in a pint of hot water. Dose, a wineglassful.

COMMON NAMES.
Catnip, Catmint, Catwort, and Balmfield.
Käthen-Ählbe.
Herbe aux Chats Cativre.



PROPERTIES.

Tonic, diaphoretic, and carminative. Useful in flatulence, colic in children, and as an emmenagogue in amenorrhœa and dysmenorrhœa. Infusion, 1 oz. in a pint of hot water. Dose, a wineglassful.

PROPERTIES.
Emmenagogue, nervine, antispasmodic.
Used in hysteria, amenorrhœa, &c. Infusion, 1 oz. in a pint of hot water. Dose, a wineglassful.



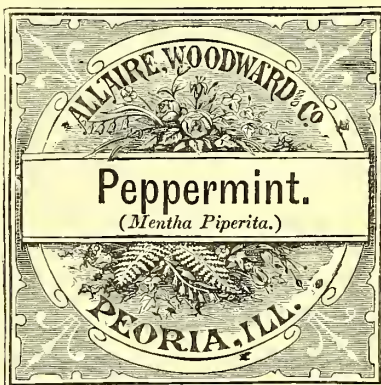
COMMON NAMES.

Motherwort, Cardiaca.

Herzgesannkraut.

Agripaume.

PROPERTIES.
Stimulant, antispasmodic, carminative, and stomachic. Used in colic, hysteria, and to check nausea. Infusion, 1 oz. in a pint of hot water. Dose, a wineglassful repeated.



COMMON NAMES.

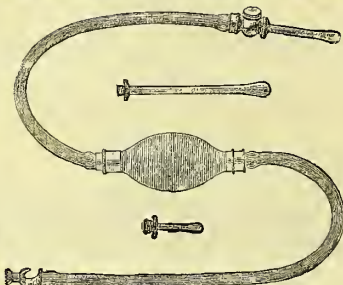
Peppermint.

Pfefferminze.

Menthe poivrée.

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A PERFECT INSTRUMENT that can always be relied upon is the **CHEAPEST.**

With the DAVIDSON Syringes, absolute perfection in the purity of stock, and skill of construction, are the objects aimed for, so that by their great durability they are much cheaper to use than any others.

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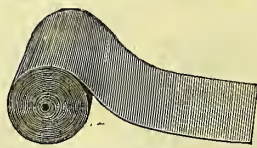
The trade never have any bad stock of DAVIDSON Syringes, which is so often the case with the cheap, worthless Syringes, such as rubber growing hard, pipes corroding, valves useless, &c., &c., and during the 25 years that we have made them, we do not recall a single complaint of their quality. The quality is specially desirable in countries where they have not the means of repairing, or where the climate effects the cheap adulterated rubber goods.

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GREAT IMPROVEMENT IN RUBBER BANDAGES.

DAVIDSON'S
60 FEET



DAVIDSON RUBBER CO.

BANDAGES.
LONG.

The advantages in these Bandages will at once suggest themselves to Physicians and Druggists.

They are made 60 feet long in four widths (1½, 2, 2½, and 3 inches), so that any length or width desired can be cut off, and it relieves the Druggists from the necessity of carrying in stock a line of Bandages of various lengths.

Many objections are found with Bandages that are made with tapes on the end, as the tapes, being non-elastic, bind the limb so rigidly as to stop or impede the circulation.

With Davidson Bandages these objections are entirely removed, as they are secured in place by using diaper or safety pins, so that no part of the limb is bound by non-elastic material.

We give the following from the celebrated London Medical Journal, "THE LANCET," of March 25, 1882.

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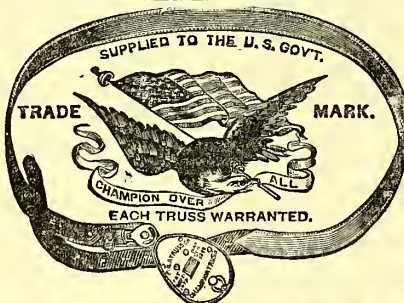
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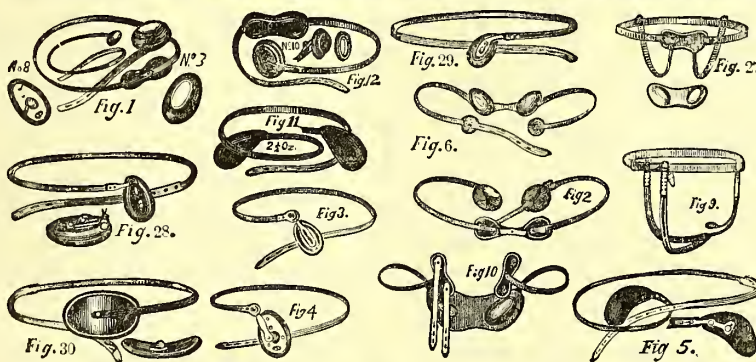
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Sciatica	Swellings	Chilblains
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Barnore, Bridge of Allan,
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Surgeon-General (Madras retired).

Enlarged Knee of over five years' standing, Rheumatism, Neuralgia, Sore Throats, Bruises, Erysipelas, &c.—My wife had a very bad knee, enlarged with a hard bony substance at the side, from which she suffered great pain for at least five years. During that time she tried many remedies, but all failed to do any good until she was recommended to try Henry's "Thilum." This effected a cure by using two small boxes, and the knee has been perfectly well for over two years. Since that time I have used "Thilum" for Rheumatism, Neuralgia, Sore Throat, &c., and always found it to have the desired effect. It is also valuable for Bruises, as it draws out the discoloration and soreness in a very short time. I have many friends in this town who have proved the marvellous effects of Henry's "Thilum."

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Sore Throat	Over reaches	Bites and Stings of
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Stiffness	ling of the Legs	Insects
Mange and other Skin Diseases and all irritable conditions of the Skin.		

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CROTON CHLORAL	Shiny crystalline scales. (Powder form most objectionable)	Free from foreign chlorides.
GLYCERINE	S.G. 1260, double distilled, brilliantly white, odourless; also lower S.G. and qualities	Free from lime, chlorides, metals; will stand severest chemical tests.
IODINE	Resublimed, fine scales	Purest.
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SILVER, NITRATE	Fine large crystals	63 to 63½% pure silver.
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ERGOTINE , pure Dialysed ...	Brown colloid, purified by Dialysis	Free from all saline matter present in the ordinary Ergotine and extracts.
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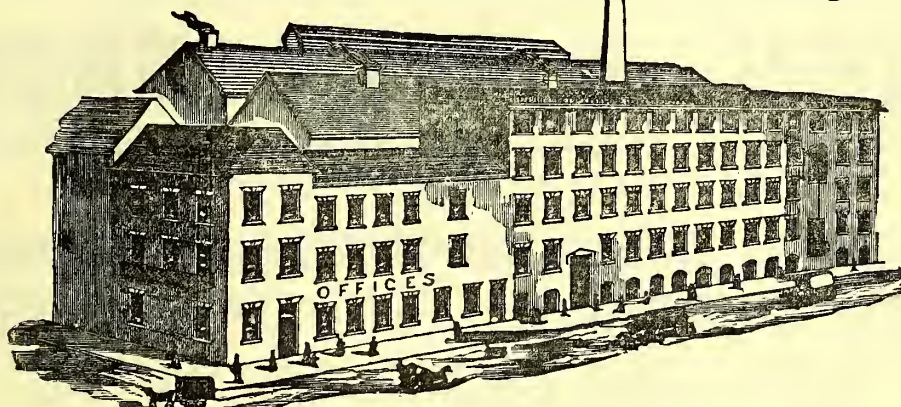
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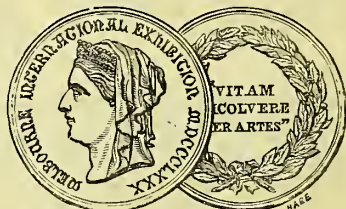
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[ESTABLISHED 1852.]

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From the numerous Testimonials received, the Proprietor has selected the following:—

Elizabeth Lodge, Gurney Road, Leytonstone Road, January, 1876.
DEAR SIR.—I feel great pleasure in acknowledging the wonderful properties of your BALSAMIC COUGH PILLS. My wife has been troubled with a nasty hard dry Cough since a child. She has upon many occasions tried various Cough Mixtures, Syrups, &c., sometimes with a slight relief, but with no satisfactory result. In the month of November last the Cough really became alarming. She was advised by a friend of hers to try your BALSAMIC COUGH PILLS. I assure you they entirely cured her. I, of course, always keep a box in the house, in case of coughs or colds, but am happy to say they are now never wanted. I think no one has a greater aversion to advertised medicine than myself; but after the extraordinary quick relief she received after taking only nine of your Pills, it would be uncharitable on my part not to acknowledge the good they have done.

To Mr. J. A. CLARK.

Broughton, Sulney, near Melton Mowbray, Notts, November 29, 1873.

DEAR SIR.—Having had a very bad Cough for many years, and, through the advice of friends, tried various remedies to no purpose, I was at last induced to try your BALSAMIC COUGH PILLS. I accordingly did so, and through the blessing of God, found very great relief. Time was when I could not lie down without a fit of coughing distressing me. I am truly thankful to say I can now lie down with comfort, owing to your COUGH PILLS. I have now a cold, with a very slight Cough; I therefore desire you to send me a box of your Balsamic Cough Pills, and oblige,

J. A. CLARK, Esq.

Believe me, Dear Sir, faithfully yours,
T. W. ELVIDGE.

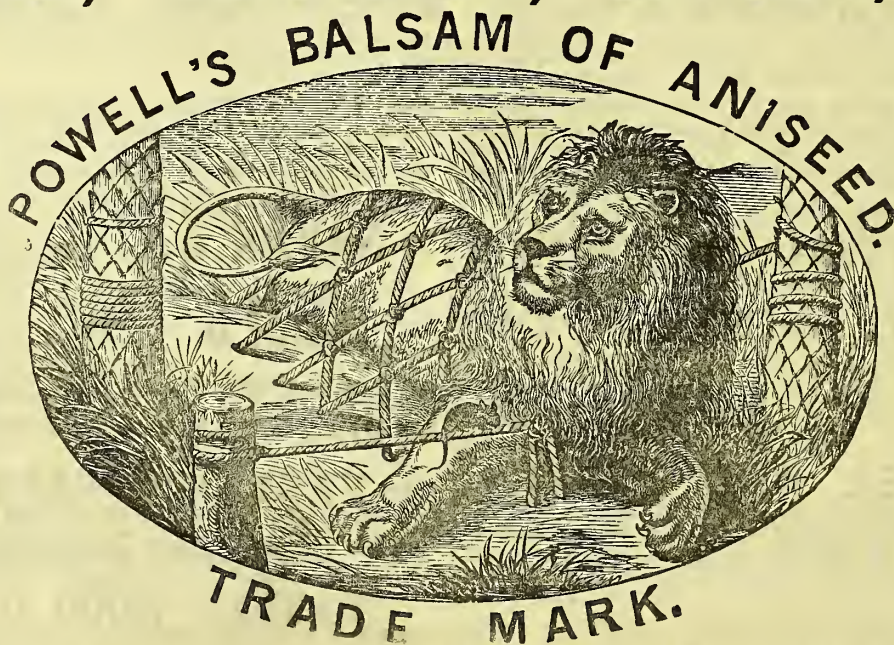
Yours truly, Rev. J. EVERETT, Baptist Minister.

Prepared and Sold in Boxes, price 7½d. and 1/1½, by

J. A. CLARK, Chemist, 48 The Broadway, London Fields, E.

WHOLESALE BY PATENT MEDICINE VENDORS.

COUGHS, BRONCHITIS, ASTHMA, &c.

Counter Bills with Name and Address at
foot, and Show Cards sent Free,on application through any of the
Wholesale Patent Medicine Houses.

The high character of this old Medicine as a sure remedy for PULMONARY and BRONCHIAL DISORDERS, is repeatedly confirmed by the gratifying letters Mr Powell receives from those who have experienced its great worth.

Prepared by THOMAS POWELL, 4 Albion Place, Blackfriars Road, London, S.E.

Sold by Chemists and Vendors of Medicine throughout the World, at 1s. 1½d., 2s. 3d. and 11s. per bottle.

HIGH TEST
BICARBONATE OF SODA,
SODÆ BICARB. PULV.

GASKELL, DEACON & CO.

ARE NOW MAKING

Three-Fourths of the total quantity
of Bicarbonate manufactured in
the United Kingdom.

BUYERS ARE REQUESTED TO SEND FOR SAMPLE AND PRICE.

Orders for Large or Small Quantities Receive Immediate Attention.

GASKELL, DEACON & CO.,
WIDNES, ENGLAND.

GOLD MEDAL, FOREIGN EXHIBITION, BOSTON, 1883.

SIR JAMES MURRAY'S PURE FLUID MAGNESIA.

The ORIGINAL Article, as prepared by the Inventor, Sir James Murray, M.D.

For over 60 years in use as an excellent remedy in cases of
ACIDITY, INDIGESTION, HEARTBURN, GRAVEL, AND GOUT.

Sold by all respectable Chemists, in LARGE-SIZED Bottles (the 1s. size containing nearly
Double the quantity usually sold at that price), at **1/**, **2/6**, and **3/6** each.

CAUTION.—Observe that the Signature of the Inventor is on every label.

SIR JAMES MURRAY'S FLUID CAMPHOR

is a valuable remedy in cases of SLEEPLESSNESS and WEAK NERVES. Bottles, **1/** and **2/** each.

SIR JAMES MURRAY & SON, Chemical Works, Temple Street, Dublin.
BARCLAY & SONS, 95 Farringdon Street, London.

HOP BITTERS CAUTION.

Our Preparation being duly Registered and Trade Marked under the Laws of Great Britain, and having been placed before the Public at great expense to us, we give notice that we shall fully protect our rights in every instance. Anyone making use of our Title, Labels, Bottles, or in any way attempting to trade on our reputation will be dealt with at once to the fullest extent of the law.

HOP BITTERS CO., London.

HOP BITTERS.

We guarantee the sale of Hop Bitters, and authorise you to do the same by your Customers. If at any time you are dissatisfied with them, please return what you have unsold in good condition, and we will remit you the amount paid for same.

HOP BITTERS CO.

Dr. J. COLLIS BROWNE'S CHLORODYNE.

THE ORIGINAL AND ONLY GENUINE.

IMPORTANT CAUTIONS

From Lord Chancellor SELBORNE, Vice-Chancellor Sir W. PAGE WOOD,
and the LORDS JUSTICES OF APPEAL.

VICE-CHANCELLOR SIR W. PAGE WOOD, by whom the suit in Chancery was first heard, stated in his judgment that 'Dr. J. Collis Browne was undoubtedly the Inventor of Chlorodyne, that the whole story of the Defendant Freeman was as deliberately untrue as the falsehood he had deposed to with reference to the use of his Chlorodyne in the Hospital.'

The VICE-CHANCELLOR also stated, 'that Chlorodyne was a fanciful name, and had application been made sooner, the Court would have given Dr. Browne protection.'

LORD CHANCELLOR SELBORNE coincided with the judgment of the Vice-Chancellor upon this point, and stated 'that had application been made at a proper time and place, the Court would have found means to restrain the Defendant from misrepresenting the decision of the Vice-Chancellor.'

LORD JUSTICE JAMES, on appeal, stated in his judgment, 'that the Defendant Freeman had made a deliberate misrepresentation of the decision of Vice-Chancellor Wood.'

It was proved in Court, on affidavit by Mrs. Forbes, of Paris, that the testimonial published in the *Times*, November 14th, 1865, speaking of the great efficacy of Chlorodyne in Cholera, referred to Dr. J. Collis Browne's Chlorodyne, and that she never used any other, that she had written to the Defendant Freeman to that effect; notwithstanding which notice the Defendant publishes the said testimonial as referring to his medicine.

The Editor of the *Medical Times*, in his report on Chlorodyne, January 13th, 1866, gives information that the Chlorodyne referred to was the medicine introduced by a retired Army Medical Officer, which was Dr. J. Collis Browne; still this is published by the Defendant as testimony to his medicine.

Numerous affidavits from eminent Physicians and others were produced in Court, stating that Dr. J. Collis Browne was the inventor of Chlorodyne, and that when prescribing they mean no other.

The Defendant himself publishes that his compound is in effect and composition quite different to any other preparation; nevertheless he assumes the name, testimonials, &c., of Chlorodyne.

Technicalities in law prevent that protection which the public should justly have against such a course of conduct. It is now incumbent on all who purchase Chlorodyne to see that the name, 'Dr. J. Collis Browne's Chlorodyne,' is engraved on the Government Stamp, as it is not sold otherwise. All other compounds under the name of Chlorodyne are spurious. All attempts at analysis have failed; hence the statement that the constituents of Chlorodyne are known is a misrepresentation.

ORIGINAL AND

FURTHER IMPORTANT NOTICE.

The subjoined list of eminent Firms concur with Vice-Chancellor Sir W. Page Wood's statement in Court, that Dr. Collis Browne was undoubtedly the Inventor of Chlorodyne; and that when Chlorodyne, or the Original Chlorodyne, is ordered, they invariably supply Dr. J. Collis Browne's:—

Apothecaries' Hall,	London	Frazer & Green,	Glasgow	Morson, T., & Son,	London
Allen, Hanbury & Co.,	"	Gale & Co.,	London	Newbery & Sons,	London
Baiss Brothers,	"	Giles & Son,	Clifton	Oldham, G., & Co.,	Dublin
Banks & Richards,	Birmingham	Goulding, Messrs.	Cork	Parsons & Richardson,	Leicester
Barron, Harvey & Co.,	London	Gratton & Co.,	Belfast	Peake, Allen & Co.,	Dublin
Bell, John, & Co.,	"	Grimwade, Ridley,	London	Raines & Co.,	Liverpool
Bourne & Taylor,	"	Grindley & Son,	Chester	Raines & Co.,	York
Corbyn & Co.,	"	Hearon, Squire & Francis,	London	Raines, Blanshards & Co.,	Edinburgh
Cox & Gould,	"	Hodgkinson, Tonge & Stead,	"	Sang & Barker,	"
Curling & Co.,	"	Hopkins & Williams,	"	Sanger, J., & Sons,	London
Curtis & Co.,	"	Hovenden, R., & Sons,	"	Sim, James, & Co.,	Aberdeen
Davy, M'Murdo & Co.,	"	Hunt & Co.,	Exeter	Smeeton, W.,	Leeds
Dobbin, W., & Co.,	Belfast	Hunt, A., & Co.,	"	Southall & Co.,	Birmingham
Drew, Barron & Co.,	London	Johnson, J. H. & S.,	Liverpool	Sutton, W., & Co.,	London
Drew, B., & Alexander,	"	Langton, W., & Co.,	London	Tomlinson, Hayward & Co.,	Lincoln
Dunn & Company,	"	Lynch & Co.,	"	Treacher, Hodgkinson & Co.,	"
Edwards, W.,	"	Mander, Weaver,	Wolverhampton	Westrup, J. B.,	Kensington
Evans, Gadd & Co.,	Exeter	Marsden & Sons,	London	Westwood & Hopkins,	Lincoln
Evans, Lescher & Evans,	London	Maw & Son,	"	Woolley, James,	Manchester
Farris & Co.,	Bristol	Meggison & Co.,	"	Wyleys & Brown,	Coventry
Foulger, S., & Son,	London	Mackay, John, & Co.,	Edinburgh	Yates & Co.,	London



ONLY GENUINE.

After these public statements in a Court of Equity, and subsequent confirmation by the trade at large, no Chemist can conscientiously use or sell any other compound for Chlorodyne without committing a breach of faith, unjust to patient and physician. The value of the remedy alone creates the great demand.

Sold in Bottles—1s. 1½d., 2s. 9d., 4s. 6d., and 11s. Usual Discount to the Profession.

SOLE MANUFACTURER,

J. T. DAVENPORT, Pharmacist,

83 GREAT RUSSELL STREET, BLOOMSBURY SQUARE, LONDON.

DR. LALOR'S PHOSPHODYNE

The ONLY MEDICINE of the KIND AWARDED A CERTIFICATE of MERIT at the CALCUTTA INTERNATIONAL EXHIBITION, 1883-4,
AND THE ONLY TRADE-MARK-PHOSPHODYNE-REGISTERED UNDER THE TRADE MARKS ACT.

DR. LALOR'S PHOSPHODYNE

Will keep in any Climate, and is therefore specially adapted for SHIPPING, and wherever introduced COMMANDS A LARGE SALE.

Dr. LALOR'S PHOSPHODYNE, from its immediate effects in cases of Exhaustion, Lassitude, Stomach and Liver Complaints, Urinary and Kidney Difficulties, Want of Stamina, Nervous Debility, and Malarial Diseases, HAS ATTAINED A VERY LARGE SALE in Africa, China, East and West Indies, the Colonies, Turkey, Asia, and other Hot Climates.

Dr. LALOR'S PHOSPHODYNE has become a Household Necessity in every nation and country in the World. Unequalled as a Brain and Nerve Food. Highly recommended by the *élite* of the Medical Profession for Dyspepsia, Mental and Physical Exhaustion, Nervousness, Wakefulness, Diminished Vitality, &c.

Dr. LALOR'S PHOSPHODYNE makes an agreeable Beverage with Water Only. INVIGORATING and VITALISING the BLOOD with the PHOSPHORIC or active Principle of Life.

Sold in Bottles, at 4s. 6d. and 11s., by all Wholesale and Retail Medicine Vendors throughout the World. Manufactured only at Dr. Lalor's Phosphodyne Laboratory, South Hill Park Road, Hampstead, London, N.W.

A supply of suitable Printed Matter in any Language for distribution, also attractive Show Cards, will be sent for Enclosure to any London House on receipt of a Letter of Advice from Agents.

1/1½ SHIRLEY'S NEURALGIC CRYSTAL. 2/-

The CERTAIN CURE for NEURALGIA, SCIATICA, NERVOUS HEADACHE, &c.
Parcels of Three Dozen and upwards 8s. and 15s. per Dozen.

LIBERAL DISCOUNT TO SHIPPERS.

LABELS, &c., can be had in French, Spanish, and Portuguese, or in any other language, if translations are supplied. Agents abroad wanted, with whom special arrangements would be made.

This Preparation is invaluable in all climates, but especially in damp and cold ones, and the attention of Shippers is directed to this.

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Agencies undertaken for Specialities, &c., both Country and Foreign, on Advantageous Terms.



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One dozen on a card. Retail Price, 1/1½. 8/6 per doz., Wholesale.



THE "ACME" BRAND MENTHOL CONES

(Made from Pure Japan Menthol), in Fancy Turned-wood Boxes, 5s. doz.

90-grain Cones in metal screw-capped bots., 7s. 9d. 60-grain Cones in metal screw-capped bots., 6s. 3d. 30-grain Cones in metal screw-capped bots., 4s. 6d.

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SPECIAL QUOTATIONS TO LARGE BUYERS.

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DELECTABLE JUJUBES, VOICE JUJUBES, AND GLYCERINE PASTILLES

Put up in 4-lb. Decorated Tins with Glass Lids, TINS FREE. are now being inquired for by buyers from all parts of the world. They are not surpassed in quality by any maker, and give entire satisfaction.

MEDICATED and HIGH-CLASS LOZENGES, of every kind.

Sent out in 2-lb. or 4lb. Bottles, Bottles Free; or in Tins, from 10 lb. upwards.

LIME JUICE TABLETS.

PURE MALT TABLETS.

ACID DROPS, AND BEST QUALITY BOILED SUGARS OF EVERY KIND.

GIBSON'S ORIGINAL CHLORODYNE LOZENGES.

PENNY SUGAR WORM CAKES, suitable for either children or adults. Have an immense sale, keep in any climate, and please everybody. Manufactured by

ROBERT GIBSON, Carlton Works, Hulme, Manchester, and 1 Australian Avenue, London.

Price Lists sent on application. Our Goods can be bought through any Wholesale or Export House in London. Indents should be marked "Gibson's".

MILK MALTED FOOD.

(REGISTERED.)

A FOOD FOR INVALIDS AND INFANTS.

The Pharmacist can now obtain for the first time in a wholesale form a thoroughly reliable Infants' and Invalids' Food, most carefully prepared by an accurate chemical process and on modern physiological principles, so that he will now be able to compete with the daily increasing demand for Proprietary Foods by "putting up" a Food of his own, which can be retailed at an **Advantageous Profit**, as will be seen from the following calculation:—

Cost Price.	Retail Price.	Profit.
28lbs M.M.F. £1 2 0	Will make at	Cost 6d. per tin
Tins, labels, and	least 60 tins at	or net profit
time 0 8 0	1/ each £3 0 0	of £1 10 0
£1 10 0	£3 0 0	£1 10 0

A sample in a patented tin will be sent, and charges paid, on receipt of 1/.

Each label bears full directions for use and trade-mark.

Can be obtained from **SANGER, BARCLAY & CO.**, or from the Manufacturer, accompanied with postal order.

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LOWE'S PILLS
For the HEAD, STOMACH, and LIVER.

LOWE'S PILLS

When the Proprietor of these Pills relinquished the Medical Profession, after being in it seven years, he found that he required something to counterbalance the want of exercise. He made up these Pills for his own use. A friend complaining of the same symptoms, he gave him some of the Pills, and a few days after received his First Testimonial, and was persuaded to advertise them. He has done so, with the happiest results.

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Sold in Boxes at 1s. 1½d., 2s. 9d., and 11s., each, by all Chemists; or post free from the Proprietor for 15 or 36 stamps, or Postal Orders for 11s. By **ROBERT HENRY LOWE**, 330 Bilston Road, Wolverhampton.

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A thoroughly good article for Cleansing Fabrics.

Paint, Pitch, Grease Spots, &c., Easily and
Instantly Removed.

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QUILLAIA is Snow-white, and is delightfully fragrant.

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ONE SIZE ONLY—HALF-A-CROWN.

Price 24/- per dozen, subject to usual Patent Medicine discount. Per gross, £11 8s., net cash, carriage paid, box free. Export Tin-lined Cases charged 7/6 each, delivered f.o.b. Remittance in full must accompany order. For less than One Gross buyers will please write their Patent Medicine House or Wholesale Druggist.

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TONIC MEDICINE.

4s.6d. Size, stamped, **42s.** per doz., 5% monthly account.

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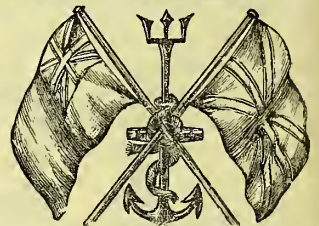
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Special agents appointed in all parts. More wanted for unrepresented localities. Obtainable direct from ALFRED KING & CO., who will forward all particulars on application.

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A NON-MERCURIAL LIVER MEDICINE, specially useful to the habitually constipated, and safe for all ages.

Special caution needed against injurious imitations. Worthy of trade notice. Reliable, and rapidly increasing in public acceptance.

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To be had of the usual Houses at Home and Abroad.

HEATHFIELD'S Liquor Opii Sedativus,

By "BATTLETT'S PROCESS,"

Guaranteed precisely as made in the laboratory, and under the superintendence of the late Richard Battley.

Can be procured from the principal Patent Medicine Dealers and Wholesale Druggists, or at

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R. HAMPSON prepares the Pills of the Pharmacopœia, and a great variety of Pills from convenient formulæ; also Pills from private formulæ. The Pills are made of the best ingredients, and being QUICKLY and perfectly diffusible, invariably give satisfaction. A Price Current, with formulæ and sample, post free. Supplied direct or through the Wholesale Houses. Special quotations for large quantities.

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Have the Largest Sale of any Medicine in the World.

MANUFACTURED ONLY AT

Professor HOLLOWAY'S Establishment,

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And sold at 1s. 1½d., 2s. 9d., 4s. 6d., 11s., 22s., and 33s. each Box or Pot.

Chemists and Druggists selling "Holloway's Pills and Ointment" can, on application to the above address, or to the Wholesale House with whom they deal, be supplied free of obarge with Handbills and Posters with their name and address printed at foot.

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For a Weak Stomach, Impaired Digestion, and all Disorders of the Liver, they act like "MAGIC," and a few doses will be found to work wonders on the most important organs in the human machine. They strengthen the whole muscular system, restore the long-lost complexion, bring back the keen edge of appetite, and arouse into action, with the ROSE-BUD of health, the whole physical energy of the human frame. These are "FACTS" admitted by thousands, embracing all classes of Society, and one of the best guarantees to the Nervous and Debilitated is, BEECHAM'S PILLS have the LARGEST SALE of any Patent Medicine in England.

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In Boxes, 1s. 1½d. and 2s. 9d. each.

N.B.—FULL DIRECTIONS ARE GIVEN WITH EACH BOX

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THE MANCHESTER COUGH CURE!

LOWE'S CONSUMPTIVE & ASTHMATIC COUGH BALSAM

(THE LATE DR. TURNER'S FORMULA).
For Consumptive and Asthmatic Coughs, Colds, Bronchitis, Bronchial Affections, Palpitation of the Heart, Hoarseness, Tightness, Wheezing, Difficulty of Breathing, &c.
Sold in Bottles, 1s. 1½d., 2s. 9d., and 4s. 6d. each.

To be obtained from most Chemists in Town and Country. If any difficulty, the Proprietor, W. LOWE, Chemist, 21 ROSAMOND STREET WEST, and 130 MOSS LANE EAST, MANCHESTER, will send, post free for 14 stamps, to any address in the United Kingdom.

Wholesale by the following Agents:—MANCHESTER—James Woolley, Sons & Co.; Oldfield, Pattinson (late W. Mather); Thomas Shaw & Co. (late Reddish & Co.); LIVERPOOL—Evans, Sons & Co.; LONDON—Barclay & Sons, 55 Farringdon Street, Ludgate Circus; John Sanger & Sons, 489 Oxford Street; John Sutton & Co., 10 Bow Churchyard; W. Edwards & Co., Queen Victoria St.; Thompson, Millard & Co., Curtain Road, E.C.



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ESTABLISHED 1836.

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SOFT AND HARD. (9 SIZES.) ALL KINDS FILLED.

EMPTY (8 Sizes.) For taking medicine free of taste, smell, injury to teeth, mouth, or throat. Trial Box, One Shilling

RECTAL, 3 Sizes.

HORSE, 5 Sizes.

VAGINAL, 4 Sizes.

DOG WORM.

CAPSULES FOR MECHANICAL PURPOSES.

Special Recipes Capsuled.

New kinds constantly added.

Sold by all Druggists. SAMPLES FREE.

H. C. MASON & CO., Agents, 1 & 2 AUSTRALIAN AVENUE,
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FLUID EXTRACTS (Christy).

Made in England from Drugs imported direct.

Strength—1 oz. of the Extract represents 1 oz. of the Drug.

Packed in 1 lb., ½ lb., and ¼ lb. Bottles.

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QUEBRACHO

COLUMBRINA RECLINATA

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When ordering ask for "Christy's" Extracts.

PURE MENTHOL CONES.

SPECIALITÉ BOXES.

The lid removes, and the box serves as a holder for the Cones.

The Wooden Barrels ... 7/0 per doz.

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The Plain Willow ditto ... 3/6 "

The Bottles ... 5/6 "

Loose Cones, 8, 12, or 16 to the oz.

Menthol Crystals, 3/- per oz.

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PURE MENTHOL CONES

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Exempt under the Medicines Acts.

Show Cards and Counter Bills on application.



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The fatal effects frequently following the use of Narcotics in Patent Medicines suggested to the Proprietor of

STEDMAN'S TEETHING POWDERS



the advisability of having his Powders tested by DR. HASSALL, the result of whose analysis is certified below, hence vendors need be under no apprehension of the pain, trouble, and censure connected with most inquests, the occasional result of fatal doses of Patent Medicines.

STEDMAN'S TEETHING POWDERS.

THE ANALYTICAL INSTITUTION,

54 HOLBORN VIADUCT, E.C.

LONDON, 29th Nov., 1877.

REPORT ON THE TEETHING POWDER PREPARED BY
MR. JAS. STEDMAN, HOXTON.

I hereby certify that I have purchased a sample of STEDMAN'S Teething Powder, and have, at the request of the Proprietor, subjected it to Analysis for Morphia or Opium in any form.

I am enabled to state that I found the sample in question to be absolutely free from Morphia, or any other Alkaloid or constituent of Opium.

Thus STEDMAN'S Teething Powder is favourably distinguished from similar preparations.

ARTHUR H. HASSALL, M.D.

Thus Vendors need not be under any apprehension of interference either by Police or Coroner, as the FREEDOM FROM NARCOTIC removes Stedman's Teething Powders from the "Scheduled Poisons" List, and prevents the possibility of inquests on account of the administration of these Powders.

STEDMAN'S TEETHING POWDERS

are best distinguished by their proper brand, a Gum Lancet (as above), which specify in ordering.

Price 78/- per gross net.

Eight 11s. Boxes, each containing 216 Powders, for £4 net.

SEIDLITZ POWDERS.

Full Size, and Prepared throughout with Howard's Materials.

Loose, 5s. 6d. per gross; in 1 doz. Coloured Boxes, Wrappers, &c., 6s. per doz. net.

TERMS—Cash with Order.

DRUGS PACKED FOR THE COLONIES.

MANUFACTORY:—

125 NEW NORTH ROAD, HOXTON, LONDON, N.

AMPUTATION AVOIDED.

THE KNIFE SUPERSEDED.

TRADE MARK.

REGISTERED OVER ALL THE
GLOBE.

TRADE MARK.

REGISTERED OVER ALL THE
GLOBE.

E. BURGESS'

LION OINTMENT & PILLS

Cure the worst and most obstinate cases of Ulcers, Abscesses, Cancers, Tumours, Polypi, Carbuncles, Piles, Poisoned Wounds of all kinds (including Dog and Venomous Bites), and every form of Eruption and Skin Disease; also Ulcerated and Cancerous Affections peculiar to Females, without the aid of Lancet or Knife. Numbers have been cured after leaving various London Hospitals as incurable, or curable only by amputation.

The following are specimens of Testimonials received. A list of over sixty, each bearing full name and address, is wrapped round each box.

ERSKINE HOUSE, NEAR TIDAL BASIN, VICTORIA DOCKS: Dec. 31, 1883.

DEAR SIR,—I beg to inform you I have not a spot about me, and I believe you are an instrument in the Almighty's hands to do a world of good for your fellow-creatures. Anyone to have seen me this time twelve months, and see me now, would say it was the greatest miracle ever made in skin disease. I have had spots on me for about forty years, have taken medicine of every description, baths, &c., &c., until November, 1882, and nothing ever could touch it. I was then recommended to use the Lion Ointment and Pills as a certain cure, and I found them the masterpiece of the world. I have consulted great men, and they could not touch it. People must not be afeard of using the Lion Ointment; the more it pinches them the more it is drawing the disease out—only persevere, and the Lion Ointment and Pills will do their work. Now, God bless you in your undertaking.—From yours faithfully,
MR. BURGESS. SILVESTER STONEHOUSE STUART.

ALMA ROAD, next door to EAST HILL HOTEL, WANDSWORTH, late 2 BOLTON ROAD, GROVE PARK, CHISWICK, MIDDLESEX: February 7, 1883.

DEAR SIR,—I am happy to forward to you the following testimonial of the great value of your Lion Ointment and Pills. Through the ill-treatment of my husband I have been suffering with poisoned blood, and, in consequence, a large abscess formed in my neck, also syphilis affecting my leg. I have, too, been suffering many years from a diseased hip. I consulted several physicians, who said that I should not recover unless I had the bone taken out. Last May, 1882, I was advised to use your Lion Ointment and Pills; by so doing I can scarcely describe the benefit I received in a very short time, and I am happy to tell you that they saved my life, and I am now perfectly cured. Hoping through my case your wonderful Ointment and Pills may get well known for the benefit of my poor fellow-creatures. You are at liberty to refer anyone to me at any time should you wish.

I am, Sir, yours respectfully, ELIZABETH STILLWELL.
To Mr. E. BURGESS.

PROSPECT HOUSE, AMERSHAM COMMON: June 25, 1881.

SIR,—Please send me by return one box of your Pills. The box of Lion Ointment I sent for is for Erysipelas in the face; do you think it suitable? [Most effectual.] Also send me another box of the Lion Ointment. I have enclosed stamps for the same. I have had Ointment from you before through a friend of mine. I had been suffering from a small tumour in the head for some years, and had the advice of medical men, and all said I must have it taken out; but, on applying your Ointment, in a fortnight it drew it out and made a complete cure of it.—Yours respectfully,
To Mr. E. BURGESS. MRS. E. HILL.

ELM LODGE, WIMBLEDON PARK, late 26 BALLANTINE STREET, YORK ROAD, WANDSWORTH: January 17, 1881.

DEAR SIR,—Having attended St. Thomas's Hospital for nine months, suffering greatly with a tumour, extending from the back of the ear to the collar bone, affecting the shoulder, and receiving not the least benefit, I was earnestly persuaded to give your Lion Ointment a trial. By so doing I can scarcely describe the benefit I received in a very short time. I am truly thankful to state I am quite well and am able to resume my duties without trouble or inconvenience. I was also attended by several doctors during the five years I have been suffering from the tumour, not having received the slightest benefit. Dear Sir, you are at liberty to publish this, or send anyone to my residence for satisfaction.—I am, Sir, yours most respectfully,
To Mr. BURGESS. MRS. H. GRIFFIN.

[The above was a most serious case. Photographs of the same, uncured and cured, and of Bones and Diseased Bone drawn away by the Ointment, can be seen on application at 117 High Holborn, W.C.]

7 SHAFTESBURY PLACE, ALDERSGATE STREET, E.C.: May 20, 1882.

SIR,—It gives me great pleasure to add to your numerous testimonials. For four years I suffered with a very bad leg, and a ten led St. Bartholomew's, the University, and Dalston Hospitals, and various Dispensaries, where they told me it was a cancerous ulcer, incurable, that I must lose my leg. However, being recommended to use your Lion Ointment, I did so, and in three months the cancer was drawn away, and my leg made quite well.—I remain, yours &c.,
To Mr. E. BURGESS. LUCY IBBS.

VERULAM, PORT NATAL, SOUTH AFRICA: March 1, 1881.
DEAR SIR,—I feel it my duty to thank you for the wonderful way in which your Lion Ointment has cured my hand of skin disease, which I had endured for over nine years. When I was residing at St. John's Hill, Wandsworth, I purchased a box of your Ointment, and by the end of the fourth week, it had perfectly cured my hand, and I have seen nothing of it since. Previously to applying your Ointment, I had been to my own doctor at Wandsworth with it, and also to several Skin Disease Hospitals in London, but to no avail. They said it could not be cured, and must, therefore, be endured; but, as I said before, your Ointment has cured it. When I came out here (twelve months ago), I brought some with me, and am glad I did, for I have found it very useful. I gave some to a gentleman who had his legs covered with Natal sores, and could not walk for them, and it has perfectly cured them. I have been obliged to send home to my friends to send me out some, which I expect shortly to arrive, for, as I said before, it is very useful; in fact, cures everything in which I have tried it. If only you had an agent here, I would recommend it to everybody.—I am, dear Sir, yours, &c.,
MR. BURGESS. SUSAN S. SMITH.

Various Cancers, Tumours, Diseased Bones, &c., extracted by the LION OINTMENT AND PILLS; also Photographs of Cases Cured are on view at 117 High Holborn. A guarantee of their virtue.

A good sale for this remedy always follows its introduction by proof of its efficacy. Foreign Houses will do well to order samples through their English agents, also supplies of Bills, PHOTOGRAPHS OF CASES CURED, &c., which ALWAYS ensure a connection.

The Ointment is put up in air-tight, grease-proof boxes, and will keep good any length of time in any climate. The Pills are in stout wooden boxes, and also retain their virtue for years. Prices, 1s. 1½d., 2s. 9d., 4s. 6d., 11s., and 22s. each.

USUAL WHOLESALE TERMS.

E. BURGESS,
117 HIGH HOLBORN, and KINGS GATE ST., LONDON, W.C.
Late WANDSWORTH, S.W.

VALUABLE PRESENTS

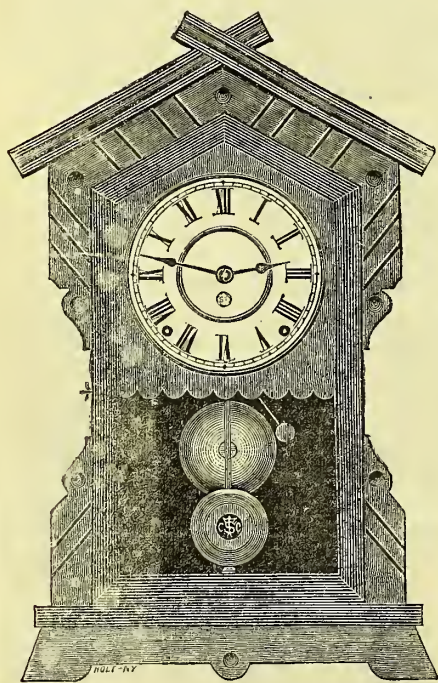
FOR SELLING

GORDON'S EXTRACT.



No. 1.—Silver Electro-plated Tea Pot, on Nickel Silver, handsomely chased, as shown in the cut.

N.B.—We do not bind you to this shape or pattern. We can get you another shape and pattern of equal value.



No. 2.

THE DETROIT CLOCK.

8 day strike.

Walnut Case; Height, 19½ in.;
6-inch Dial.

Manufactured by the celebrated
SETH THOMAS COMPANY,
of Thomastown, Conn., U.S.A.

No. 3.—Cruet Stand, Silver
Electro-plated on Nickel
Silver. Five bottles.

No. 4.—Butter Cooler, Cut or
Frosted Glass Dish, Silver
Electro-plated Plate and
Cover.

No. 5.—Large Quarto Album, handsomely bound in Morocco, Russia, or Plush.

No. 6.—Biscuit Box, Silver Electro-plated on Nickel Silver.

Any one of these presents, all of which are of the guaranteed retail value of ONE GUINEA each, will be sent free of all cost to any Chemist or Medicine Vendor who purchases ONE GROSS of "GORDON'S EXTRACT" subsequent to June 1st, 1884, and prior to March 31st, 1885.

Exceptions to this offer are:—

- A. The Wholesale Houses.
- B. Those Chemists or Medicine Vendors whose names we print, as selling our goods, in the pamphlets we ourselves distribute from house to house, in towns of over 20,000 inhabitants.

The one gross of "EXTRACT" can be bought from ourselves in one lot, or from a wholesale house in any number of lots.

If a Chemist buys six dozen "GORDON'S EXTRACT" by the 30th of March, 1885, and then six dozen on the next day, i.e., 31st March, 1885, he would become entitled to one of these presents, or, of course, before if he completes the purchase of one gross at an earlier date.

Printed matter for circulation among customers, and printed with name and address, sent free of charge and carriage paid, if prompt and careful distribution, without waste, is promised. When writing say how many books are required, and send printed label or heading to prevent errors in printing.

PRICES.

"GORDON'S EXTRACT" (to retail at 2s. per bottle),

18s. per dozen,

Subject to 15 per cent. discount on orders for not less than six dozen.

TERMS CASH.

Cheques crossed City Bank, Ludgate Hill Branch. P.O. Orders made payable to Gordon & Co., at Head Office, London, and crossed. Free delivery.

N.B.—We do not care to supply direct less than six dozen bottles of "Gordon's Extract."

GORDON & CO., 11 LONG LANE, LONDON, E.C.



FREEMAN'S CHLORODYNE



THE ORIGINAL AND ONLY TRUE.

Discovered and Invented by **RICHARD FREEMAN** in 1844.

IT IS THE GREATEST MEDICAL DISCOVERY OF THE PRESENT CENTURY.

IT is the best known remedy for COUGHS, CONSUMPTION, WHOOPING COUGH, BRONCHITIS, and ASTHMA.

IT effectually checks and arrests those too often fatal Diseases—DIPHTHERIA, DIABETES, FEVER, CROUP, AGUE, &c.

IT acts like a charm in DIARRHŒA, and is the only known Specific in CHOLERA and DYSENTERY.

IT is the only Palliative in RHEUMATISM, GOUT, CANCER, TOOTHACHE, MENINGITIS, &c.

IT effectually cuts short all attacks of EPILEPSY, HYSTERIA, PALPITATION, CONVULSIONS, and SPASMS.

IT rapidly relieves pain from whatever cause, allays the irritation of Fever, soothes and strengthens the system under exhaustive diseases, restores the deranged functions, stimulates healthy action of the secretions of the body, gives quiet and refreshing sleep, and marvellously prolongs life. It may be taken by old and young at all hours and times.

IT is extensively used by Medical Men in their official and private practice, at home and abroad, who have given numerous written testimonials of its wonderful efficacy.

IMPORTANT CAUTION.—Four Chancery Suits terminated in favour of **FREEMAN'S ORIGINAL CHLORODYNE** and against Collis Browne and Davenport. Lord Chancellor Selborne, Lord Justice James, and Lord Justice Mellish condemned their proceedings, and decreed them to pay all costs. Reports of the suits in "Times," January 12 and July 13, 1864, and April 29 and July 24, 1873, and "British Medical Journal," May 3, 1873.

Sold in Bottles, 1s. 1½d.; 2 oz., 2s. 9d.; 4 oz., 4s. 6d.; 8 oz., 9s.; half pints, 11s.; and pints, 20s. each; and for dispensing only in bottles, fl. 8 oz. 8s., and fl. 20 oz. 18s. (in weight one pound and a half).

Purchasers are cautioned not to have palmed upon them any substitute. There are other articles bearing the name of Chlorodyne, but quite devoid of its wonderful effects. See that the Trade Mark, "The Elephant," is on the wrapper, &c., and that the words **Freeman's Original Chlorodyne** are engraved on the Government Stamp, which is the only true Chlorodyne.

SOLE MANUFACTURER—

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HEALD'S "LIVER CURE,"

PRICES 2/6 AND 4/6.

A. J. HEALD, M.P.S., BURNHAM, BUCKS. London Depot: 95 Farringdon St.

INTERNATIONAL FISHERIES EXHIBITION, LONDON, 1883.

COD LIVER OIL.

The Only GOLD MEDAL

For British Exhibitors was awarded to

T. J. SMITH,

10 & 11 NORTH CHURCH SIDE, HULL

Importer of Norwegian, Newfoundland, & other varieties.

Low Quotations on application. Delivered at London or Liverpool.

SPECIAL NOTICE.

J. JENSEN & CO.'S

NORWEGIAN COD LIVER OIL,

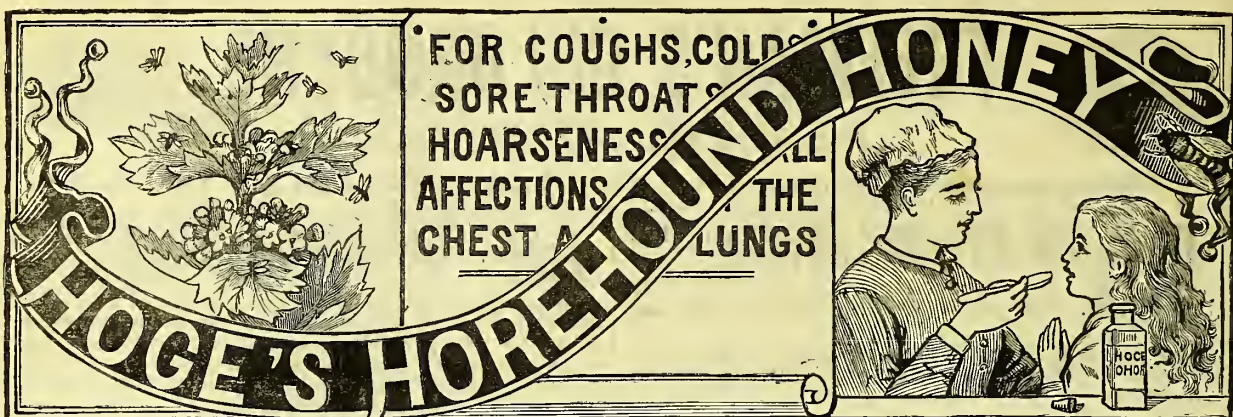
ICEBERG BRAND.

GUARANTEED ABSOLUTELY PURE.

The attention of Shippers and the Trade is directed to the great advantages in price and quality of this fine Brand of Norwegian Cod Liver Oil.

Messrs. J. JENSEN & CO., Proprietors, Manufacturers, and Shippers—the largest producers in the world—guarantee to deliver **ALL OILS PURE**, pale, delicate in flavour, and non-freezing.

WHOLESALE ONLY—from their Sole Agent, Mr. **WALTER JACQUES**, 2 Fenchurch Buildings, Fenchurch Street, or from **J. JENSEN & Co.**, 10 St. Helen's Place, Bishopsgate Street, E.C.



**FOR COUGHS, COLDS,
SORE THROAT,
HOARSENESS, AND ALL
AFFECTIONS OF THE
CHEST AND LUNGS**

HOGGE'S HOREHOUND HONEY

BEE PASTURAGE.

NEW countries, where the natural luxuriance of plants is not checked by the grazing of domestic animals, are particularly favourable to bee culture, and when Mr. Hoge first visited California, he found it was one sweet bee-garden throughout its entire length, north and south, and all the way across, from the snowy Sierra to the ocean. Wherever a bee might fly within the bounds of this virgin wilderness—through the forests, along the banks of the river, along the bluffs and headlands fronting the sea, over valley and plain, and deep leafy glen, or far up the piney slopes of the mountains, throughout every belt and section of climate—bee-flowers bloomed in lavish abundance. During the months of March, April, and May, what is known as the bee-belt of Southern California is one smooth continuous bed of honey-bloom so marvellously rich that, in walking from one end of it to the other, a distance of more than four hundred miles, your feet would press more than a hundred flowers at every step.

Extending far out in the vast prairie, its unbroken bosom is often found to be one perpetual carpet of horehound flowers, lasting from spring until autumn. All the seasons are warm and temperate, so that honey never ceases to flow from this plant, which yields a profusion of blossoms almost unequalled in the vegetable kingdom. We can judge of their luxuriance, when there grows upon a slender, unobtrusive little bush upwards of 3,000 blossoms, five-eighths of an inch in diameter. Each of these are reservoirs that yield the most wonderful remedy in the world for the cure of coughs, sore throats, sore lungs, &c.—horehound honey. These miniature laboratories stamp with faultless certainty this honey with a colour and flavour peculiar to itself.

The work of the honey-bee is to gather the sweet treasure so divinely prepared, and bear it off, saying to suffering humanity, "Eat! It is the soul of the Blossom."

HOME TESTIMONY.

No Medicine ever came before the public with such unquestionable recommendations and distinguished patronage as "Hoge's Horehound Honey." It has proved a veritable revelation to all who have tried it.

THE LORD MAYOR OF LONDON ORDERS IT.

Mansion House, London, E.C.,
September 23, 1883.

The LORD MAYOR would thank Messrs. W. M. HOGGE & Co. to send him half-a-dozen of their "Hoge's Horehound Honey," which has been well recommended to him.

THE PRIMA DONNA.

Hawthorn Lodge, Finchley New Road, N.W.,
March 30, 1883.

Messrs. W. M. HOGGE & Co., London.

Gentlemen,—I have much pleasure in stating that I consider your "Horehound Honey" the most wonderful remedy I have ever tried, possessing properties which are nothing short of marvellous, for the cure of affections of the throat and chest. I shall never be without a bottle of "Horehound Honey."

Yours very truly,

MARIE ROSE-MAPLESON.

Your Honey is delicious.

ELLEN TERRY.

W. L. BRIGHT, Esq., son of the RIGHT. HON. JOHN BRIGHT, M.P., said Hoge's "Horehound Honey" cured his father of a bad cough.

REV. C. D. KINGDON says "it makes the voice clear and pleasant, and takes away all that huskiness in the throat which is so uncomfortable to preacher and congregation."

67 Warwick Road, Maida Vale, W.,
October 5, 1883.

Messrs. W. M. HOGGE & Co.

Dear Sirs,—I have great pleasure in bearing testimony to the excellence of your "Horehound Honey" for the throat and the voice. I have used, and use it now at intervals, as I found it, for my voice, of great value, and, therefore, I can recommend it from my own experience, especially to singers.

Yours truly,

LOUISE LIEBHART.

33 Oxford Road, Islington, London, N.

Messrs. W. M. HOGGE & Co.

Gentlemen,—I was troubled for a long time with a bad cough, which I feared was becoming chronic. I used your "Horehound Honey," and gave it a fair trial. I am happy to be able to tell you that it quite relieved me, and I recommend it as a certain cure.

Yours truly,

GEO. M. SMYTHE.

7 Suffolk Lane, Cannon Street, E.C., London.,
April 20, 1883.

Messrs. W. M. HOGGE & Co., London.

Gentlemen,—Having suffered for many years with irritation of the throat and chest, I never found any remedy to relieve the irritation until I purchased a bottle of your "Horehound Honey," which I did a few days since. I want to inform you it had a wonderful soothing effect, affording relief at once. Please send me one dozen bottles, and oblige

Yours truly,

G. F. BLACK.

SUPPLIED BY ALL WHOLESALE DEALERS

AND BY

HOGGE'S HONEY CO., Ltd., 12 GREAT EASTERN STREET, E.C.

FOR THE USE OF INVALIDS AND ALL PERSONS AFFECTED IN THEIR LUNGS.

Dr. Wright's (IMPROVED) Pulmonic (EUCALYPTUS) Candles.

"By these blessed candles of the night"—*"Merchant of Venice," Act 5, Scene 1.*

The laboured respiration in Asthma, the harrassing Cough in Bronchitis, and all the distressing Symptoms in connection with diseases which affect the Chest and Lungs are speedily relieved.

The breathing passages become freed, and perfect respiration is soon re-established and maintained, in any room in which one (or more) of these Candles is kept burning.

The sufferer has but to light one of these Candles in the bedchamber before retiring, in order to

ensure a thoroughly good night's rest

from the refreshing and agreeable, though invisible, vapour which it emits.

Overwhelming evidence of these facts is daily being given by the large and increasing numbers of patients who use them.

As to the medicinal and wholesome properties, as well as to the purity of the various substances which enter into the composition of these invaluable Candles, and especially as to their effectual agency to produce a healthy atmosphere in rooms

unusually strong testimony is afforded by the reports of Professors ATTFIELD, STODDART, HEISCH, Dr. PHIPSON, and other eminent Medical and Chemical Authorities; whilst the "Lancet," "British Medical Journal," "Medical Times and Gazette," as well as the other organs of the profession highly extol their virtues, and recommend their use.

Read the Published Testimonials.

DR. WRIGHT'S PULMONIC CANDLES.

TO BE HAD OF ALL CHEMISTS, PRICE 2s. 6d. PER BOX.

WHOLESALE ONLY FROM THE MANUFACTURERS, Messrs. J. C. & J. FIELD,
UPPER MARSH, LAMBETH, LONDON, S.E.

ESTABLISHED UPWARDS OF A CENTURY.

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COVENT GARDEN MARKET, LONDON.

WHOLESALE IMPORTERS AND EXPORTERS OF ALL KINDS OF
**MEDICINAL AND CULINARY HERBS, ROOTS, BARKS, SEEDS, AND
 PREPARATIONS. DISTILLERS OF PERFUMED & MEDICINAL
 WATERS. IMPORTERS OF LEECHES.**

*All Powdered and Crushed Articles are prepared in London. Absolute Purity
 is thus assured.*

THE GREATEST CARE AND JUDGMENT USED IN THE SELECTION AND PACKING OF INDENTS.

SPECIALITIES.—MEDICINAL HERBS PACKED IN PATENT CARDBOARD BOXES,
Which can be opened for examination of contents and closed up again without detriment to the package.

PRICE LISTS ON APPLICATION.



PRIZE MEDAL, INTERNATIONAL HEALTH EXHIBITION, 1884, for purity and excellence of our
 prepared Herbs and Powders.

POTTER & CLARKE,

75 Weston Street, S.E., and Viaduct House, Farringdon Street, E.C.,
 LONDON,

WHOLESALE AND EXPORT BOTANIC DRUGGISTS,

Importers of American and Continental Drugs, Herbs, and Essential Oils,

LEECH IMPORTERS. MANUFACTURERS OF FLUID EXTRACTS AND CONCENTRATED MEDICINES.

SPECIALITIES :

Herbs in bulk & packets, Composition Essence, Stramonium Cigarettes, Compound Asthma Cigarettes, &c.

Price Lists, Samples, and Special Quotations on application. Foreign Indents receive our special attention.

**IMPORTANT TRADE NOTICE
 RESPECTING****TOWLE'S CHLORODYNE**

The Original Preparation, as approved by the Medical Profession
 on account of its known composition and uniform strength.

Retail at 13½d., 2s. 9d., 4s. 6d., and 11s.

We beg to inform our numerous customers, and the Trade generally, that we are **WITHDRAWING THE 4-OZ. AND 10-OZ. DISPENSING** sizes, and, instead, are putting up **AN 11s. RETAIL SIZE**. The wholesale price of the 4s. 6d. and 11s. will be at the same rate per oz. as the old 4-oz. and 10-oz. We shall still continue the undermentioned as usual

LIQ. CHLORODYNE

As originally introduced by A. P. Towle, and free from stamp duty for dispensing. 4 ozs., 4s.; ½ lb., 5s. 6d.; 1 lb., 10s.
 Also in quantities of 6 lbs. and upwards at special quotations.

TOWLE'S CHLORODYNE LOZENGES AND JUJUBES

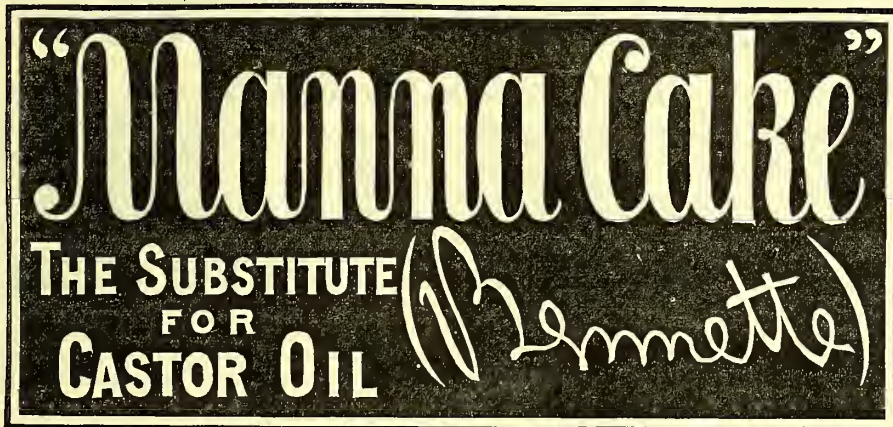
In 1, 2, and 4 lb. bottles, at 3s. per lb., and 6d. and 1s. boxes. Foiled, lined, and neatly got up for the counter, 4s. 6d. and 9s. per doz. Quantities of 7 lbs. of Lozenges and upwards stamped with chemist's own name free of charge.

A. P. TOWLE, Chlorodyne Manufacturer,
75 BACK PICCADILLY, MANCHESTER.

Show Cards and Bills with name on application with instructions for forwarding.

TO BRITISH, COLONIAL, AND FOREIGN CHEMISTS.

RECOMMENDED BY THE FACULTY.



Price—
12/-
per
Gross.

Retail,
1½d. each
(18/- per
Gross).

Registered Trade Mark, No. 22,133.

The mildest and most agreeable aperient known. A first-class Family Medicine for every household. Highly approved of by adults; children take it readily and do not suspect its properties. A most suitable aperient for women at all times, and during the whole course of pregnancy. Does not gripe, and leaves no bad effect as Castor Oil does. A digestive tablet and sweet to the taste.

LONDON WAREHOUSE—11 LONG LANE, E.C.

Manufactured by BENNETTE & Co., 8 & 10 Station Street, LEICESTER.

London Warehouse—11 LONG LANE, E.C.

GORDON & CO., Distributing Agents for Great Britain and Ireland.

MANNA CAKE is sent out in Handsome Decorated Tin Boxes, suitable for display on the Counter.

SHOW TABLETS SUPPLIED FREE ON APPLICATION.



COWAN'S VACCINATION SHIELDS IMPROVED.

3/3, 7/, & 12/ per doz. Adult size, 5/3, 9/, & 15/ per doz.

Be sure and ask for COWAN'S, for any other will hurt your sale for this article.

To be had of all Wholesale Chemists and Sundriesmen.

W. COWAN,

Inventor and Maker of the Vaccination Shield,

239 GEORGE STREET, GLASGOW.

BATES'S COMPOUND BREAST SALVE,

Registered under the Trade Marks Act, 1875.

THIS INVALUABLE and WELL-KNOWN PREPARATION

has now been before the public for nearly 70 years, and has obtained a world-wide reputation for the CURE (without the use of Lancet or Leeches, as has been proved in Thousands of Cases) of **KNOTTY, INFLAMED, and ULCERATED BREASTS**, and is the **ONLY REMEDY** that can be relied on for relief in those distressing complaints to which the Female Breast is subject after confinement.

THE VIRTUE OF THIS SALVE is not confined to the Female Breast alone, but it is equally efficacious in **CURING** all those complaints where inflammatory action is present, and to which the body is ordinarily or accidentally subject, such as **ABSCESSES, TUMOURS, ULCERATIONS, BAD LEGS, BED SORES, BURNS, SCALDS, BRUISES AND CRUSHES, FESTERED FINGERS, &c., &c.**, and numerous persons have testified of the **GREAT RELIEF** they have obtained from its use in **MUSCULAR RHEUMATISM**, while hosts of **Genuine Testimonials** from persons unknown to us have been received unitedly testifying to its wonderful and unequalled efficacy as a **BREAST and FAMILY SALVE**.

NOTE—CHEMISTS, PATENT MEDICINE VENDORS, &c., who do not keep this article in stock are requested to give it a trial. It will be found to be the **FINEST SALVE** that can be stocked, and once known recommends itself. For the Breast it is not equalled by any Ointment or Salve made; and as a Family Salve, for use in all external ailments where inflammation is present, as enumerated above, it is equally valuable and efficacious. The best guarantee that can be given of its intrinsic value is the fact that it has sustained its reputation above all similar preparations for nearly 70 years.

Can be obtained, with a supply of handbills, through any English Wholesale Druggists, and of the Proprietors and Manufacturers, [2]

BATES & CO., 1 REGENT SQUARE, LONDON, W.C.

THE BEST MEDIUM FOR TAKING NAUSEOUS MEDICINES—COD LIVER OIL, CASTOR OIL, SANTAL WOOD, &c.

TRADE MARK.



FRANÇOIS CHEVALIER.

IMMENSE SUCCESS OF CHEVALIER & CO'S MEDICINE SOLUBLES.

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FLEXIBLE—SWEET.

THESE Solubles are infinitely superior to the ordinary rigid Capsules, inasmuch as they are flexible, and accommodate themselves alike to the throats of children as well as of adults. Being sweet and pleasantly flavoured, the most nauseous medicines may be taken by the aid of a little water without inconvenience, the Solubles readily assimilating themselves to the contents of the stomach, and leaving no disagreeable taste in the mouth or odour to the breath after being taken.

A larger quantity of Cod Liver Oil, Castor Oil, or other nauseous medicines can be taken in one Soluble than by the old rigid form of Capsule.

Only the very finest qualities of Medicines and Medicinal Oils are allowed to be used in their manufacture, or administered through the medium of Chevalier's Solubles.

The Solubles are made in six sizes:—No. 1 contains about 12 drops (10 min.); No. 2 contains about 25 drops (18 min.); No. 3 contains about 35 drops (30 min.); No. 4 contains about 45 drops (40 min.); No. 5 contains about 60 drops (55 min.); No. 6 contains about 80 drops (65 min.).

The Cod Liver Oil Solubles contain one ordinary dose in a single Soluble, whereas it requires 10 to 15 of the ordinary rigid Capsules before a single dose can be administered. Three of Chevalier's Castor Oil Solubles contain sufficient for an adult dose. Hitherto it has been almost impossible to administer this medicine by the ordinary rigid Capsules.

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FOR SORE THROAT, ETC.

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Attention is called to the following Articles:—

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Santal Oil Capsules (36 in each box)	25/	4/6 to 6/6
Cubeb Oil and Copaiba Capsules	16/	3/ to 2/6
Copaiba, Cubeb Oil, and Santal Oil Capsules	18/	4/ to 4/6
Copaiba Capsules, No. 0.....	7/	1/6
" " No. 1.....	6/6	1/8
" " No. 2.....	6/	1/
Copaiba, Alum and Cubeb	7/	2/
Compound Ferruginous	7/	2/
Male Fern Oil	12/	5/
Cod Liver Oil	6/	1/6
Cubeb Oil Capsules.....	25/	4/6 to 6/6
Castor Oil	6/6	4/8
Denonal's Injection (to ensure a radical cure in two days).....	18/	2/9

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P. C. SMYLY, M.D., &c. Surgeon to the Meath Hospital, writes:—"I find it of the greatest use, in fact, in every instance was equal, if not superior, to Ruspini's Styptic."

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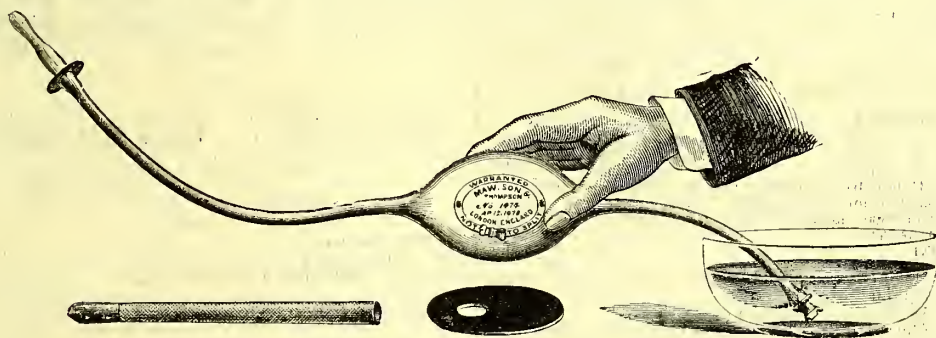
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Higginson's, Fig. 13	34s. per doz.
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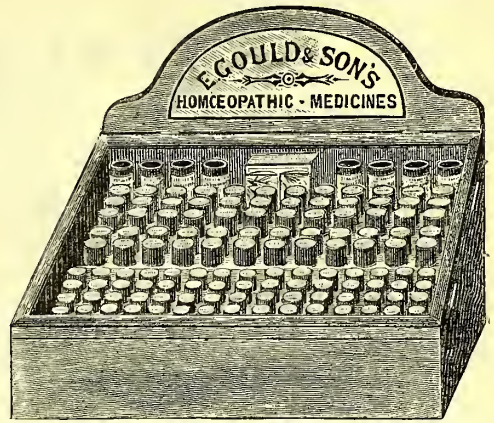
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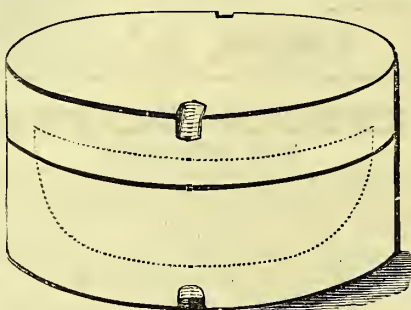
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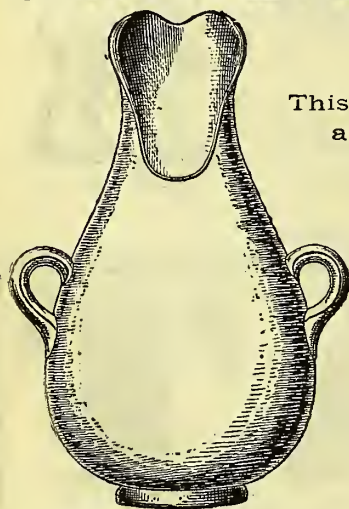
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For use in the Relief of Asthma, Hay Fever, &c.

This Inhaler offers advantages which are not to be found in any other, viz., that the Vapour, simple or medicated, can be inhaled from water at any temperature and the effect exerted upon **ALL** the air passages of the nostrils, mouth, and throat.



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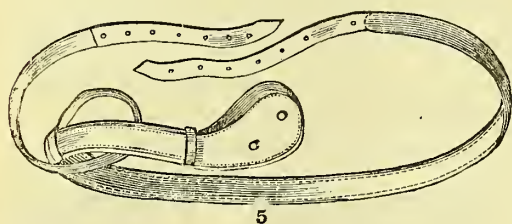
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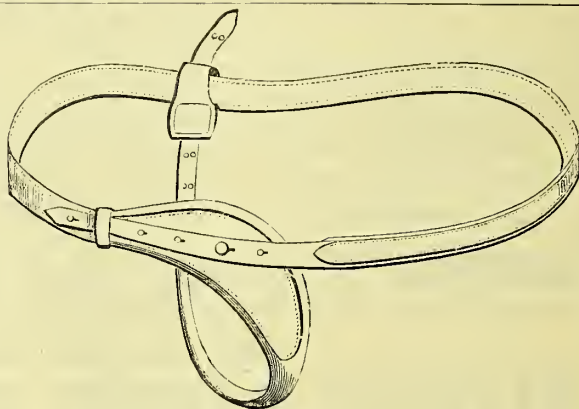
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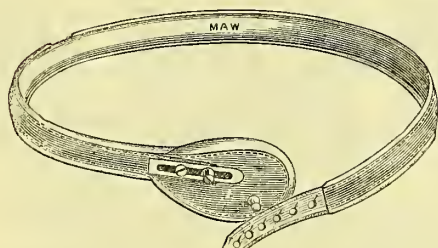
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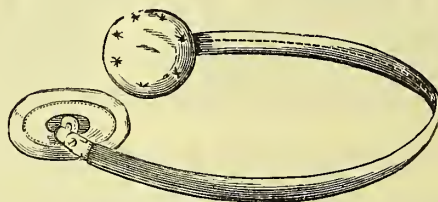
5



24



4



15

Circular (Fig. 5), 14 to 40 inches—

		Single	Double
Covered with Basil and Moleskin	per doz.	21/	34/
Covered with Roan and Moleskin	„	16/	30/
Covered with Blue or Red Morocco and Moleskin ..	„	24/	40/

Circular (Fig. 4), with Slide Pad, 30 to 40 inches—

Covered with Blue or Red Morocco, and Lined with Calf			
	per doz.	32/	54/

Circular Scrotal (Fig. 24), 30 to 40 inches—

Covered with Basil and Moleskin	per doz.	48/	84/
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Salmon & Ody's (Expired Patent) (Fig. 15), 30 to 40 inches—

Covered with Calf and Chamois Leather	per doz.	27/	54/
Covered with White Roan	„	36/	72/

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And Carbolate of Iodine for use therewith are in constantly increasing demand.

Dr. HORACE DOBELL, in his recent work "On Loss of Weight, Blood Spitting, and Lung Disease," says (at page 124, 2nd edition), in reference to Antiseptic Inhalations.

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SUPPLIED AT FOLLOWING PRICES.

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1 & 2-ounce 6/6 per gross	14-ounce 15/- per gross
3 & 4 " 7/9 "	16 " 15/9 "
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10 " 12/- "	Feeders 12/- "

Delivered carriage paid to any railway station for not less than 6 gross assorted. Packages free.

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1/2 ounce and under 4/ per gross.	1 1/2 ounce .. 5/ per gross.
1 ounce .. 4/6 "	2 ounce .. 6/ "
3 ounce .. 7/6 per gross.	

Plain, or Graduated to Teaspoons.

All the above are first-rate quality. In ordering, please say "PURE METAL BOTTLES." A Sample Bottle of any kind forwarded free on application. Country packages, 1/ each. Bankers, London and Westminster. Established upwards of 50 years.

1. ISAACS & CO., Glass Bottle Manufacturers,
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6 ozs., 10 ozs., 13 ozs. Fluid,
this is apt pot.



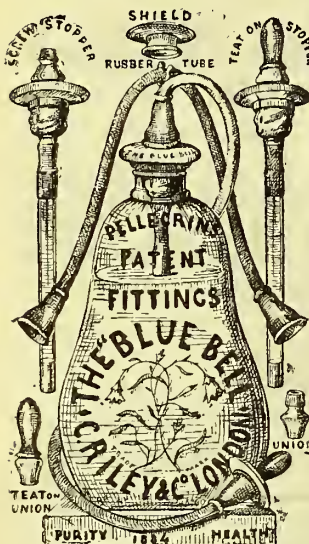
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The above new method (first introduced by G. V. De Luca) excels all others for neatness and elegance, and is specially adapted for export. Made in various new designs. Spécialité for Bottles for all kinds of Confectionery, Essences Manufacturers and Sundries. N.B.—Beware of imitations sold at cheap prices, the capsules being a mixture of lead or tinned iron.

Manufacturer of the GLASS POMADE POTS WITH GLASS COVERS, in Opal White and White Flint in all sizes.

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COMBINES
CERTAIN CLEANLINESS.

Shield and Teat secure
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FITTINGS OF AN ENTIRELY
NOVEL DESIGN.

THE PERFECTION OF
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GREATLY REDUCED PRICES OF MEDICAL BOTTLES.

SUPERIOR QUALITY—FLATS OR OVALS.

3-oz. & 4-oz., 6/6 per grs.	10-oz. & 12-oz., 10/9 pr. grs.
6-oz. " 8-oz., 7/6 "	16-oz. ... 14/6 "

IMPROVED WHITE FLINT VIALS.

Long, Medium, Squats, Round Shouldered, and Graduated.

2-oz. ... 5/6 per gross.	1-oz. ... 3/9 pr. grs.
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THOS. W. SIMCOCK,
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INDEX TO ADVERTISEMENTS,

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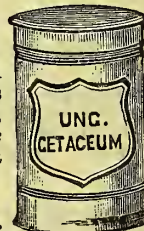
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H. POTHS & CO.,

4 SUGARLOAF COURT, 50 LEADENHALL STREET, LONDON, E.C.



Amongst others the following have been supplied with these Bottles and Jars:—Bradford & Co., Bridlington Quay; Birks, N. & W. H., Adelaide S. A.; Büchner, M., 124 High Street, Whitechapel, London, E.; Brown, Alex., Dunoon, N. B.; Corry, T. C. S., Dr., Belfast; Cottingham, W., Lincoln; Croymen, E. H., Newcastle-under-Lyme; Davis, Hayton, High Harrogate; Donovan, Richard, Blackrock, near Dublin; Durrant, G. R., Hertford; Hall, Ralph, 552 Kingsland Road, London, N.; Hill, J. B., Auckland, N. Z.; Jenkins, J. T., Nottingham; Jones & Co., Christchurch, N. Z.; Lofthouse, J., Fleetwood; Pasmore, W. F., 820 Regent Street, London; Potts, Charles, Ilkeston; Proctor, Wm., & Son, Newcastle-on-Tyne; Roberts, D. P., Croydon, Surrey; Robinson, C. J., Streatham, London; Robinson, H., Baildon, near Leeds; Southern, J., Manchester, opposite the Assize Court; Taylor, P. N., 14 Basinghall St., London, E.C.; Twinberrow, W., & Son, 80 Wigmore Street, London, W. Waterall, Geo., & Sons, Nottingham.

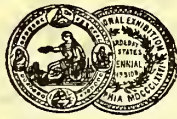
PRIZE MEDALS, INTERNATIONAL EXHIBITIONS.



LONDON, 1862.



PARIS, 1875.



PHILADELPHIA, 1876.



PARIS, 1878.



SYDNEY, 1879.



MELBOURNE, 1880

KILNER BROTHERS,

MANUFACTURERS OF

GLASS BOTTLES,

VAN BOXES, CASES, &c.,

Respectfully invite attention to the following Goods that they supply:

DISPENSING BOTTLES—All kinds in GREEN and WHITE FLINT GLASS.

In consequence of the growing demand for our *Dispensing* Bottles we have found it necessary to increase our powers of production, and are now in a position to execute orders for same promptly.

FEEDING BOTTLES—"OUR BABIES' BOTTLE," in Green and White Glass.
"OUR DARLINGS' BOTTLE," in White Glass.

Fitted in a variety of styles.

PERFUMERY BOTTLES—Many kinds in WHITE FLINT GLASS.

CHEMISTS' BOTTLES—Numerous varieties in PALE GREEN, BLUE, and WHITE FLINT GLASS.

SUNDRIES—In Glass and Earthenware ; Corks ; Parcels-Post Boxes, &c.

Also Wholesale Druggists', Oil, Tap, Pickle, Sauce, Vinegar, Wine, Spirit, Beer, Mineral Water, Ink, Gum, and other Bottles, Syphons, Van Boxes, Cases, &c.

NOTICE.—WE PUBLISH

**FOR HOME
TRADE,**

MONTHLY, a 12-page Circular, containing full particulars of our Goods, in which attention is invited to new kinds as they are added, and prominence given to goods in season.

QUARTERLY, Price Current of Dispensing, Feeding, Perfumery, and Chemists' Bottles and Sundries.

AT INTERVALS, Price Lists of other goods as mentioned above, in separate sections for different trades.

AT INTERVALS, Illustrated Catalogues of all our goods.

QUARTERLY ILLUSTRATED PRICE CURRENT (54 pages), full of information for Foreign Buyers.

**FOR HOME
TRADE.**

**FOR EXPORT
TRADE.**

**FOR EXPORT
TRADE.**

ORDERS FROM THE HOME OR FOREIGN TRADE WILL HAVE CAREFUL ATTENTION.

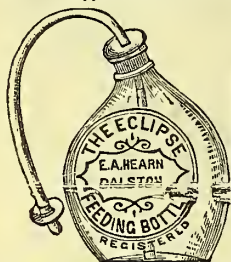
KILNER BROTHERS,

No. 3 GT. NORTHERN GOODS STATION, KING'S CROSS, LONDON

Feeding Bottles.

THE "ECLIPSE."

Fitted with Boxwood or China topped Corks.



White Fittings, 30s. per gross; best Black Fittings, 36s. per gross.

Fitted with best Screw Glass Stoppers, 6s. per gross extra. The above are put up in one dozen wood-partitioned boxes.

Spare Bottles or Fittings at lowest prices. Liberal discount to large buyers.

HEARN, RIDDELL & CO., GLASS BOTTLE MANUFACTURERS, 381, KINGSLAND ROAD, LONDON, E.

GLASS BOTTLES of EVERY DESCRIPTION, either PLAIN or STOPPERED, made in WHITE, BLUE, AMBER, ACTINIC GREEN, or any other colour required.

SCREW NICKEL CAPPED POMADES, HONEY POTS, JELLY JARS, &c., &c.

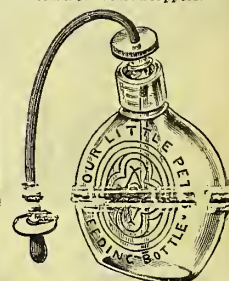
SPECIAL ATTENTION GIVEN TO QUALITY.

Quotations Post Free to any part of the world on Application.

The above will be found the BEST and CHEAPEST House in the Trade.

"OUR LITTLE PETS"
Feeding Bottle.

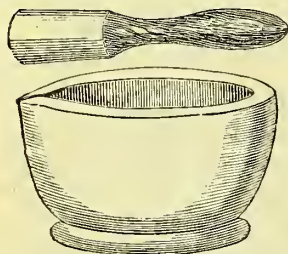
Fitted with best Porcelain Caps or Screw Glass Stoppers.



White Fittings, 78s. per gross; Black Fittings, 84s. per gross.

Each Bottle, with two Brushes, in handsome cardboard box, bearing our Copyright Label.

Spare Bottles or Fittings at lowest prices. Liberal discount to large buyers.



WEDGWOOD

ACID-PROOF

MORTARS AND PESTLES.

ALSO MANUFACTURERS OF

Funnels, Evaporating Pans, Electric Battery Fittings, Bed Pans, Urinals, Medicine Spoons, Physic Cups, Sick Feeders, Bleeding Basins, Medicine Measures, Eye Cups, Inhalers, Nursery Lamps, Wall Tiles, &c.

Price List on application. Special quotations for large orders. Every article stamped "Wedgwood."

JOSIAH WEDGWOOD & SONS, ETRURIA, STOKE-ON-TRENT.

LONDON ROOMS: ST. ANDREW'S BUILDINGS, HOLBORN CIRCUS.

E. BENTLEY & SONS' NEW OPAL GLASS POTS,

FOR DISPENSING TOOTH PASTE, COLD CREAM, & OTHER PURPOSES.

PRICES:-

Lip Salves	1/4 oz.	1/2 oz.	3/4 oz.	1 oz.	1 1/2 oz.	2 oz.	3 oz.	4 oz.
	1/4	1/4	1/6	1/8	1/10	2/1	2/8	3/4 per doz.

E. BENTLEY & SONS, DRUGGISTS' SUNDRYMEN,

Manufacturers of Ship and Family Medicine Chests of every description.

All kinds of Bottles for Chemists' and Perfumers' use kept in stock or made to order.

14 TABERNACLE ST., & 1 & 2 HILL ST., FINBURY, LONDON, E.C

GREAT REDUCTION IN PRICE OF GLASS BOTTLES, SYPHONS, ETC.

ESTABLISHED TWENTY-FIVE YEARS.

ROUND SHOULDER OR LIME JUICE BOTTLES.

1	2	3	4	6	8	10	12	16	20 oz.
2/9	3/3	4/6	6/6	7/6	8/6	14/15	20/22	per gross	

VIALS (Long, Medium, or Short Series).

2 oz., 2/8; 1 oz., 3/4; 2 oz., 4/6 gross. Good quality.

KALI (CONFECTIONER'S) BOTTLES.

4	6	8	10	12	20 oz.
6/	7/6	9/	14/	17/	24/ gross.

GLASS SYRINGES (Best Quality).

2 oz., 14/; 1 oz., 18/; 1 oz., 27/; 2 oz., 49/ gross.

All and every kind of Bottle made, and prices given for any particular pattern.

FEEDING BOTTLES:

[SPECIAL PRICES ON APPLICATION.]

Best White Glass, China Tops, White Indiarubber Fittings, 27/ gross; Black ditto, 34/ gross.

Curved, with Screw Caps, White Indiarubber Fittings, 30/ gross; Black Indiarubber Fittings, 42/ gross.

N.B.—The fittings for above Screw Feeders are made in Glass (no Metal or Earthenware).

SYPHONS: Black Tin Mounts, best in the trade, 19/ doz. f.o.b. Antwerp.

SELTZOGENES: 5 pint, 14/ ea; h

J. & J. LANG, Glass Works, Alsace and Lorraine.

Also at 37 QUAI FLAMAND, ANTWERP, and FALKENAU, BOHEMIA.

Show Rooms at 82 HATTON GARDEN, LONDON, E.C.; and 28 Rue Notre Dame de Nazareth, Paris.



BEST WHITE FLINT OVAL DISPENSING OR PERFUMERY BOTTLES.

2	3	4	6	8 oz.
6/	7/	8/6	9/6	10/6 per gross.

BEST WHITE FLATS.

2	3	4	6	8 oz.
6/	7/	8/6	9/6	10/6 per gross.

PILL BOTTLES (Metal Screw Caps).

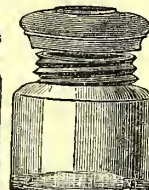
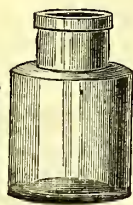
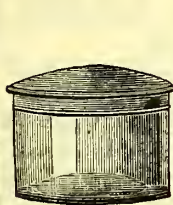
1/2 oz., 9/; 1 oz., 10/; 2 oz., 13/; 3 oz., 16/ gross.

POMADE BOTTLES (Metal Screw Caps).

1 oz., 10/6; 2 oz., 14/; 3 oz., 18/; 4 oz., 21/ gross.

Our Metallic Capsules are superior to anything in the Market.





GLASS BOTTLES,

SUITABLE FOR

ANALYTICAL CHEMISTS, THE LABORATORY, AND
WHOLESALE DRUGGISTS.

E. BREFFIT & CO. (Lim.) respectfully intimate that Specimens may be seen
in use at the TECHNICAL SCHOOL (Dr. Corfield's),

INTERNATIONAL HEALTH EXHIBITION.

Full information as to price, &c., can be obtained at 83 UPPER THAMES STREET.

POMADE BOTTLES

Various shapes, fitted with Boxwood or Glazed Caps, in several colours.

ALSO GROUND GLASS STOPPERS.

SAMPLES ON APPLICATION.

STOPPERED OR BOX CAP PRESTON SALT BOTTLES.



BREFFIT'S



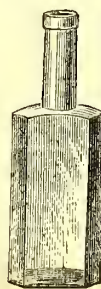
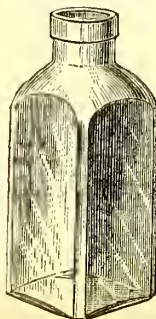
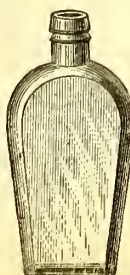
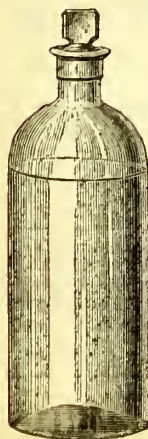
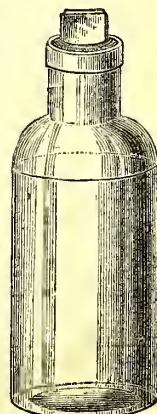
(LIMITED)

AIRE AND CALDER BOTTLE CO.

OFFICES AND SHOW-ROOMS—

83 UPPER THAMES ST., LONDON.

Every description Bottles, Glassware, and Trade Sundries.



THE MORGAN CRUCIBLE COMPANY

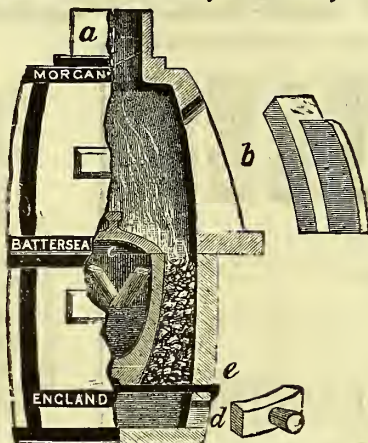
(THE PATENT PLUMBAGO CRUCIBLE COMPANY),
Sole Manufacturers of MORGAN'S and SALAMANDER CRUCIBLES.

PORTABLE FURNACES.

IRON BOUND. EXTERIOR DIMENSIONS.

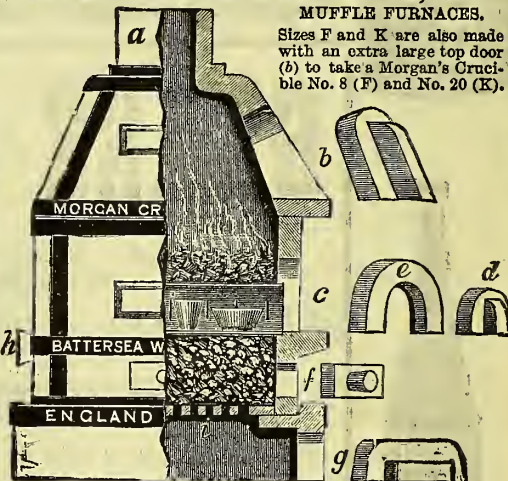
For MELTING GOLD, SILVER, COPPER, &c

For ASSAYING. DENTAL WORK, &c.



a. Door for fuel.
b. Door for muffle.
c. Muffle arch.
d. Door for regulating draft.
e. Fire-clay grate.

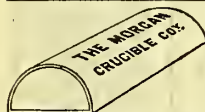
No.	Diam. in.	Diam. mill.	Height in.	Hauteur mill.	For Morgan's Crucible.	Price.
A	9 1/2	235	17 1/2	445	No. 2	1 0 0
B	9 1/2	248	20	508	" 4	1 5 0
C	11	280	22	559	" 6	1 10 0
D	12 1/2	349	26	660	" 8	2 5 0
E	14 1/2	369	28	712	" 12	3 0 0
F	18	457	32	813	" 16	4 0 0



MUFFLE FURNACES.
Sizes F and K are also made with an extra large top door (b) to take a Morgan's Crucible No. 8 (F) and No. 20 (K).

a. Door for fuel.
b. Door for muffle.
c. Muffle arch.
d. Door for regulating draft.
e. Fire-clay grate.

Exterior dimensions.			Interior dimensions.			For Battersea Muffles	Price
Width and depth front to back	Largeur et profondeur	Width and depth front to back	Largeur et profondeur				
A .. 12 1/2	315	9 1/2	235	ABCD	£2 0 0		
B .. 13 1/2	337	10	254	BCDE	2 5 0		
C .. 14 1/2	369	11	280	CDEFH	2 10 0		
D .. 15 1/2	394	12	305	DEFGH	3 0 0		
E .. 16 1/2	414	12 1/2	324	EFGHJ	3 10 0		
F .. 17 1/2	445	13 1/2	350	FGHJ	4 0 0		
K .. 23	585	19	483	KL	8 0 0		



MUFFLES.

With or without apertures.



No.	Long. in.	Wide. in.	High. in.	Price. per doz.	No.	Long. in.	Wide. in.	High. in.	Price. per doz.
A	7 1/2	3 1/2	2 1/2	12/	G	11	4	3 1/2	21/
B	7 1/2	3 1/2	2 1/2	15/	H	10 1/2	5 1/2	3 1/2	25/
C	8	4	3	18/	J	12	6	4	33/
D	8 1/2	4 1/2	3 1/2	21/	K	14	8	5	48/
E	9	5 1/2	4	24/	L	15	9	6	54/
F	10	6	4 1/2	27/					

Sizes A to F, also K, are suited for the Furnaces of the same letters.

G to L have one slit at back only, none at sides.

In addition to these priced above, Muffles are made of all shapes and sizes, suitable for Assayers, Enamellers, Dentists, &c.



ASSAY CRUCIBLES.

FOR COPPER.

CORNISH FORM AND QUALITY (JULEFF).

	High. in.	Hauteur mill.	Diam. in.	Diam. mill.	Price. per doz.
Nest of Two	3 1/2	083	3	077	2/ per doz
Single..	2	051	2 1/2	064	1/ "

All sizes and shapes to order.



FOR TIN.

	High. in.	Hauteur mill.	Diam. in.	Diam. mill.	Price. per doz.
	3 1/2	083	3	077	6/ per doz.

Covers, 2/ per doz.

FOR LEAD.

3 in. diam., .077 diam. mill., with Covers, 2/3 per dozen.
Other sizes to order.

FOR GOLD.

THESE ARE PERFECTLY SMOOTH, AND OF THE CORRECT POROSITY.

No.	Diam. in.	Diam. mill.	Height in.	Hauteur mill.	Price. per doz.
A	1 1/2	027	1 1/2	027	2/
B	1 1/2	032	1 1/2	032	2/
C	1 1/2	038	1 1/2	038	3/
D	1 1/2	045	1 1/2	061	2/

Covers for either size, 6d. per doz.

THE MINT OF THE UNITED STATES AT SAN FRANCISCO.

OFFICE OF THE ASSAYER.

SAN FRANCISCO, CAL., April 19, 1877.

SIRS,—I have tested and used the Assay Crucibles and Annealing Cups, and can with assurance recommend their superior quality and durability.

Respectfully yours, &c.,

O. D. MUNSON, Assayer.

For several years past I have used Fire Clay Assay Furnaces, Muffles, and Crucibles made by the Patent Plumbago Crucible Co., Battersea Works, London, S.W., and am so thoroughly satisfied with them that I strongly recommend this manufacture to all laboratories, refiners, and smelting works.

(Signed)

Prof. Dr. DÜRE,

Der Königl. Rheinisch Westfälischen Polytechnischen Hochschule.

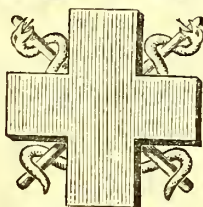
NOTICE.—Care should be taken in all instances, when ordering, to specify the Crucibles, &c., manufactured by

THE MORGAN CRUCIBLE CO. (Sole Manufacturers of Morgan's and Salamander Crucibles), Battersea Works, LONDON, S.W.

Sole Manufacturers of JULEFF'S Cornish Crucibles for Copper, Tin, &c.

IMPORTANT NOTICE.**HARTMANN'S
HYGIENIC WOOD WOOL DIAPERS.**

Patent Wood Wool Impreg-
nated with Corrosive
Sublimate.



TRADE MARK.

A great boon for Health, Com-
fort, Convenience, and
Cleanliness.

If once adopted they will be found to be the Cheapest, Cleanest, and Best Diapers.
UNEQUALLED & UNRIVALLED for GENERAL USE & ACCOUCHEMENT.

THE Medical Profession fully recognises the unequalled value of HARTMANN'S PATENT WOOD WOOL as an absorbing and antiseptic agent. It is, therefore, particularly suited for the manufacture of these Diapers.

In their construction we have acted upon the suggestions of an EMINENT LONDON OBSTETRIC PHYSICIAN, who, after repeated trials of them among his patients, now pronounces HARTMANN'S HYGIENIC WOOD WOOL DIAPERS perfect in material and form, and THE MOST CONVENIENT, COMFORTABLE, and HEALTHFUL APPLIANCE EVER PROVIDED for this special purpose.

The essential requirements in Diapers are the rapid and thorough absorption of all secretions, and the prevention of odours, resulting from decomposition. NOTHING HITHERTO PRODUCED answers these requirements so perfectly as HARTMANN'S HYGIENIC WOOD WOOL DIAPERS.

The following are a few of the many advantages which the material employed in the manufacture of HARTMANN'S HYGIENIC WOOD WOOL DIAPERS possesses over any other substance, and especially over common Absorbent Cotton Wool:—

- (1.) Hartmann's Patent Wood Wool has an enormous capacity of absorption, so that, as a rule, the use of one of Hartmann's Hygienic Wood Wool Diapers will be found equal for all practical purposes to **three or four** of the ordinary Diapers or the **Common Absorbent Cotton Wool Pads, thus being obviously by far cheaper than anything hitherto produced.**
- (2.) All disagreeable odours and the decomposition of the secretions are **entirely and effectually** prevented, owing to the antiseptic properties of the material.
- (3.) The Diaper is very light, and will always remain flexible and soft—an important advantage over the ordinary diaper, which is necessarily heavy, hot, and liable to chafe the skin during its use, all of which disadvantages are entirely avoided in using Hartmann's Hygienic Wood Wool Diapers.
- (4.) As the watery secretions can freely evaporate the Diaper will always feel dry and remain soft. This is due to the nature of the material employed, and adds greatly to the comfort of the wearer. The Diaper, also, being constantly cool, offers a striking feature which **no other Diaper or the Common Absorbent Cotton Wool Pad possesses.**
- (5.) The ease with which it is applied to the waistbelt is likewise a great convenience.
- (6.) The moderate price at which they are sold, bringing them within the reach of everyone, will (as stated above under No. 1. being cheaper and far superior to the Common Absorbent Cotton Wool Pad) allow their destruction after use, by simply burning them—a fact which, from a sanitary and economical point of view (as washing is dispensed with) is of the utmost importance.

N.B.—The burning of the Diaper can be effected at any convenient time. The antiseptic properties of the material will prevent any smell whatever, while being kept after use, until convenient to be burned. The latter process is also completely free from any kind of smell.

In addition to these advantages, we point out the great convenience and comfort these Diapers afford Ladies travelling, as the carrying about of Soiled Linen is entirely avoided, another important fact, which must be obvious to everyone.

ST. CLAIR THOMSON, Esq., M.B. Lond., Resident Medical Officer to Queen Charlotte's Hospital, reports to the BRITISH MEDICAL JOURNAL of November 1, 1884, on pages 868 and 869:—

"AN ABSORBENT AND ANTISEPTIC DIAPER.—The use of napkins as diapers after delivery has been discontinued in this hospital for some time. This was chiefly as a safeguard against septic contagion; the use of a napkin for a second time, however well the washing might be done, being attended with some risk. The napkins were deficient in absorbing powers, and of course had no antiseptic qualities.

"For some years now the diapers have been made of pads, of a mixture of cotton wool and tenax (carbolised tow). They were destroyed after use, thus avoiding the risk of contagion; but they were very little more absorbent than ordinary linen, and were but slightly antiseptic. The tenax could not be used in large quantity, as it caused cutaneous irritation.

"Later, Wood Wool has been introduced here with the best results. It is enclosed in oblong bags of corrosive sublimate gauze. These are about seven inches long by three inches broad, and about half an inch in thickness. They are tacked on to strips of waste linen (about a yard and a half in length), by which they can be attached to the hinder, and kept accurately in position.

"Thus made, they are very light, weighing less than half an ounce each; they are soft, flexible, can be closely applied and cause no irritation. They have a great capacity for rapid absorption. A pad which weighed three drachms before use, when saturated with lochia cruenta, weighed two ounces and four drachms—that is, it took up and retained more than two ounces of blood. The pads do not become 'soppy' unless left for some time after saturation; neither do they cake or become dry.

"The natural antiseptic properties of the Wood Wool are increased by the presence of corrosive sublimate, in the strength of half per cent. Wool with a large percentage of sublimate has not been tried, it being doubtful if the sensitive vulva would bear it; and as the diaper is changed night and morning, whether saturated or not, it is hardly required.

"There are more economical than linen diapers, for there is not the price of linen to begin with, the expense of washing is saved, and a less number of draw sheets are required. They are now in regular use here."

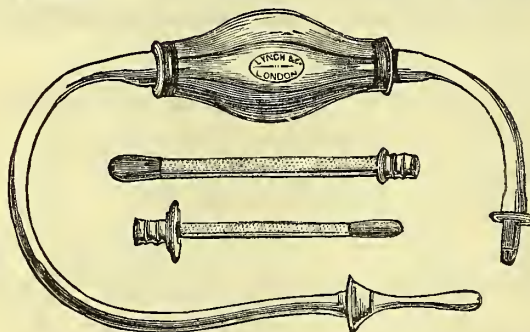
To be had in Packages of Six Diapers each at 2s. per package of every Chemist, Surgical Instrument Maker, Ladies' Outfitter, and Linendraper throughout the world. Sample packages by parcels post, with pamphlets, for 2s. 3d., or five packages for 10s., direct from the Sole Consignees, **ESSINGER & NEUBURGER, 11 Hatton Garden London, E.C.**

The exclusive sale right of **PAUL HARTMANN'S DRESSING MATERIALS & HYGIENIC WOOD WOOL DIAPERS** in the United Kingdom of Great Britain & Ireland & the British Colonies is possessed by **ESSINGER & NEUBURGER, 11 HATTON GARDEN, LONDON, E.C.,**
Who supply the Wholesale Trade.

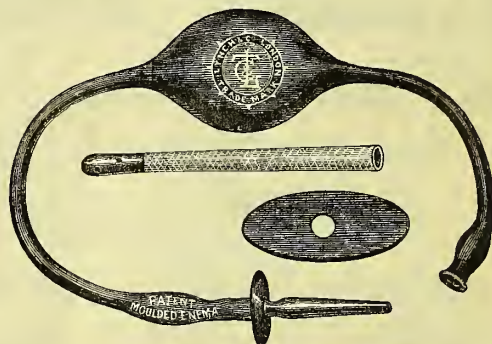
HARTMANN'S AWARDS.—Exhibition, Stuttgart, 1881, **GOLD MEDAL**; Hygienic Exhibition, Berlin, 1883, **GOLD MEDAL**; International Pharmaceutical Exhibition, Vienna, 1883, **GOLD MEDAL**.



LYNCH'S



No. 436.



No. 435 D.

ENEMAS.

SUBJOINED ARE PRESENT PRICES:

				£	s.	d.
433A.	HIGGINSON'S, unvarnished india-rubber, with rectum pipe only, in slide cedar boxes	... ..	per doz.	1	5	0
433B.	Ditto, with elastic-gum vagina pipe and leather shield	... ..	"	1	10	0
434.	Ordinary Higginson's, barrel shape, with bone rectum pipe, elastic gum vagina pipe, to plug on, and patent leather shield, in slide cedar box	... ..	per doz.	1	12	0
434AA.	Ditto, fitted with vagina pipe with reversed current	... ..	"	1	16	0
434A.	Ditto, ditto, with disconnecting mounts	... ..	"	1	14	0
435C.	LYNCH'S (Higginson's principle), black, green, red or white india-rubber, requiring no metal mounts, in one continuous piece, warranted not to split, fitted with vulcanite rectum pipe, in slide cedar box	... ..	per doz.	1	10	0
435D.	Ditto, with elastic-gum vagina pipe, and leather shield, in slide cedar box	... ..	"	1	15	0
436.	LYNCH'S FAMILY (Higginson's principle), fitted with bone bulb pointed rectum pipe for adults, elastic-gum vagina pipe, and elastic-gum rectum pipe with bone shield for children, in mahogany box	... ..	per doz.	2	8	0
437.	Ditto, in slide cedar box	... ..	"	2	2	0
437A.	LYNCH'S PERFECTION, in mahogany box	... ..	"	2	16	0
437B.	Ditto, in slide cedar box	... ..	"	2	10	0
437C.	Ditto, in superior mahogany box, with lock and key	... ..	"	3	12	0
437D.	Ditto, in oval boxes of cloth and leather	... ..	"	2	15	0
437E.	LYNCH'S COMPLETE HOUSEHOLD SYRINGE, consisting of Higginson's Enema with disconnecting mounts, fitted with bone bulb-pointed rectum pipe for adults, elastic-gum rectum pipe with bone shield for children, elastic-gum vagina pipe, and bone pipes for ear, eyes, and nose, in mahogany box	... ..	each	0	7	6

Discount—10 per cent. Monthly, 5 per cent. Half-yearly Account.

SPECIAL QUOTATIONS FOR 12 DOZEN AND UPWARDS.

LYNCH & CO.,

Wholesale and Export Chemists and Druggists' Sundriesmen,
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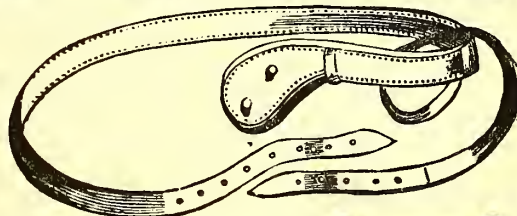
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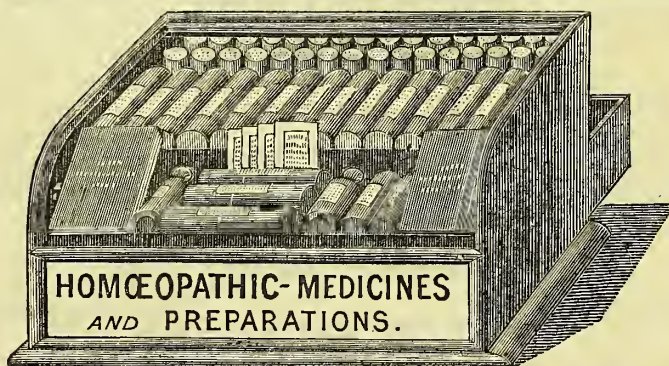
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